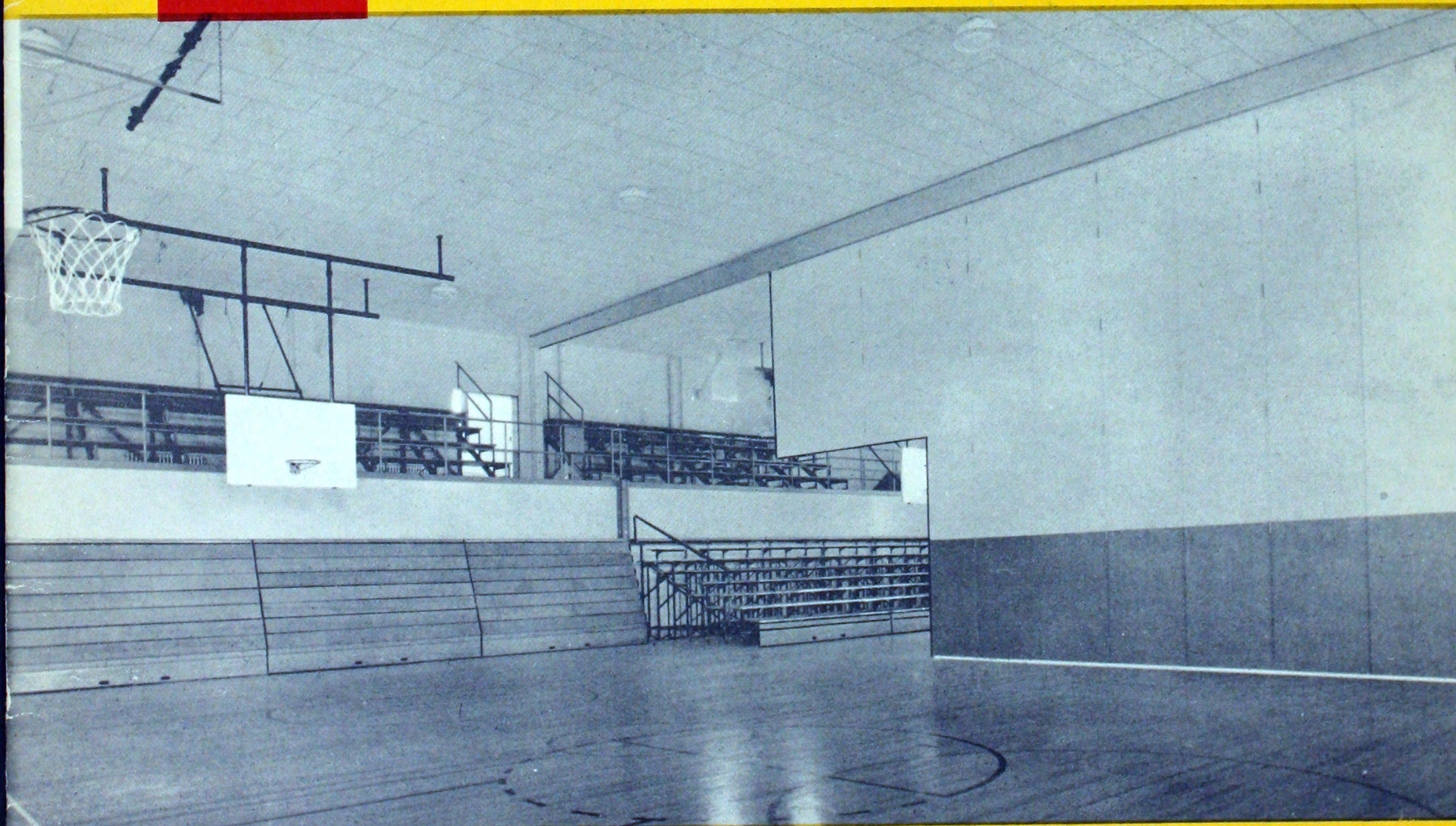


FOLDING R-WAY

*Folding Partitions
Folding Bleachers*



Richards-Wilcox

CANADIAN COMPANY LIMITED
LONDON

MONCTON WINNIPEG MONTREAL CALGARY TORONTO VANCOUVER HAMILTON

CATALOG No. 56



FOREWORD

INCREASED school attendance and public interest in community activities have created a problem---

"how to provide separate gymnasiums for boys and girls plus an arena or auditorium for spectators---at reasonable cost."

To solve the problem---

---build all three in one!

This is entirely practical by installation of:

FOLDER-WAY FOLDING PARTITIONS

(Pages 2-13)

FOLDER-WAY FOLDING BLEACHERS

(Pages 14-16)

We are now in production on these new Partitions and Bleachers and recommend them to Canadian Architects and Engineers as the best equipment made for the purpose . . . Richards-Wilcox quality throughout and entirely dependable.

Contact Branches for complete details and prices.

BRANCHES:

MONCTON	- - - - -	2 Imperial Block
MONTREAL	- - - - -	416 Jean Talon West
TORONTO	- - - - -	1221 Bay Street
HAMILTON	- - - - -	809 Pigott Bldg.
WINNIPEG	- - - - -	533 Henry Avenue
CALGARY	- - - - -	226 Alberta Corner Bldg.
VANCOUVER	- - - - -	120 Shelly Bldg.

Richards-Wilcox
CANADIAN COMPANY LIMITED
LONDON, ONTARIO



Richards-Wilcox



CANADIAN COMPANY, LIMITED

BRANCHES MONCTON MONTREAL TORONTO HAMILTON WINNIPEG CALGARY VANCOUVER

HEAD OFFICE AND FACTORY LONDON ONTARIO
TELEPHONE FAIRMONT 2800

January 14th, 1949.

TO OUR ARCHITECT FRIENDS:

Herewith catalog No. 56 illustrating -

FOLDER-WAY PARTITIONS

FOLDER-WAY BLEACHERS

FOLDER-WAY PARTITIONS are designed to divide a large room into two or more smaller rooms, and at the same time prevent transmission of light and sound. Fully automatic, - all folding, unfolding and soundproofing operations are accomplished by the Electric Operator without manual assistance. No floor tracks or guides are used.

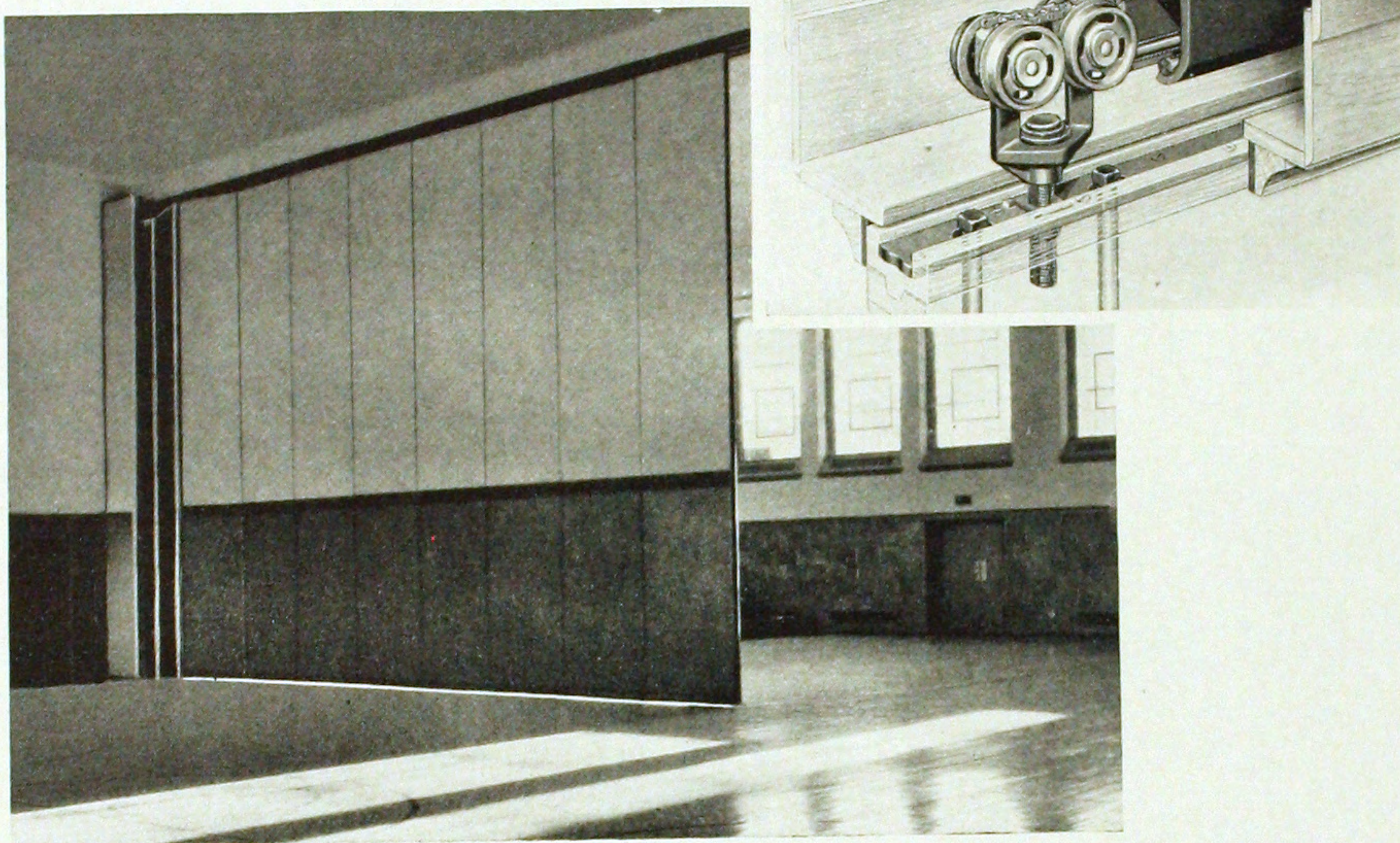
FOLDER-WAY BLEACHERS are safe, comfortable seating for any type of assembly room. When folded, bleachers occupy a minimum of floor space and provide safe playing walls for indoor sports.

We are now in production on these new Partitions and Bleachers and recommend them to you as the best equipment made for the purpose.

Yours very truly,

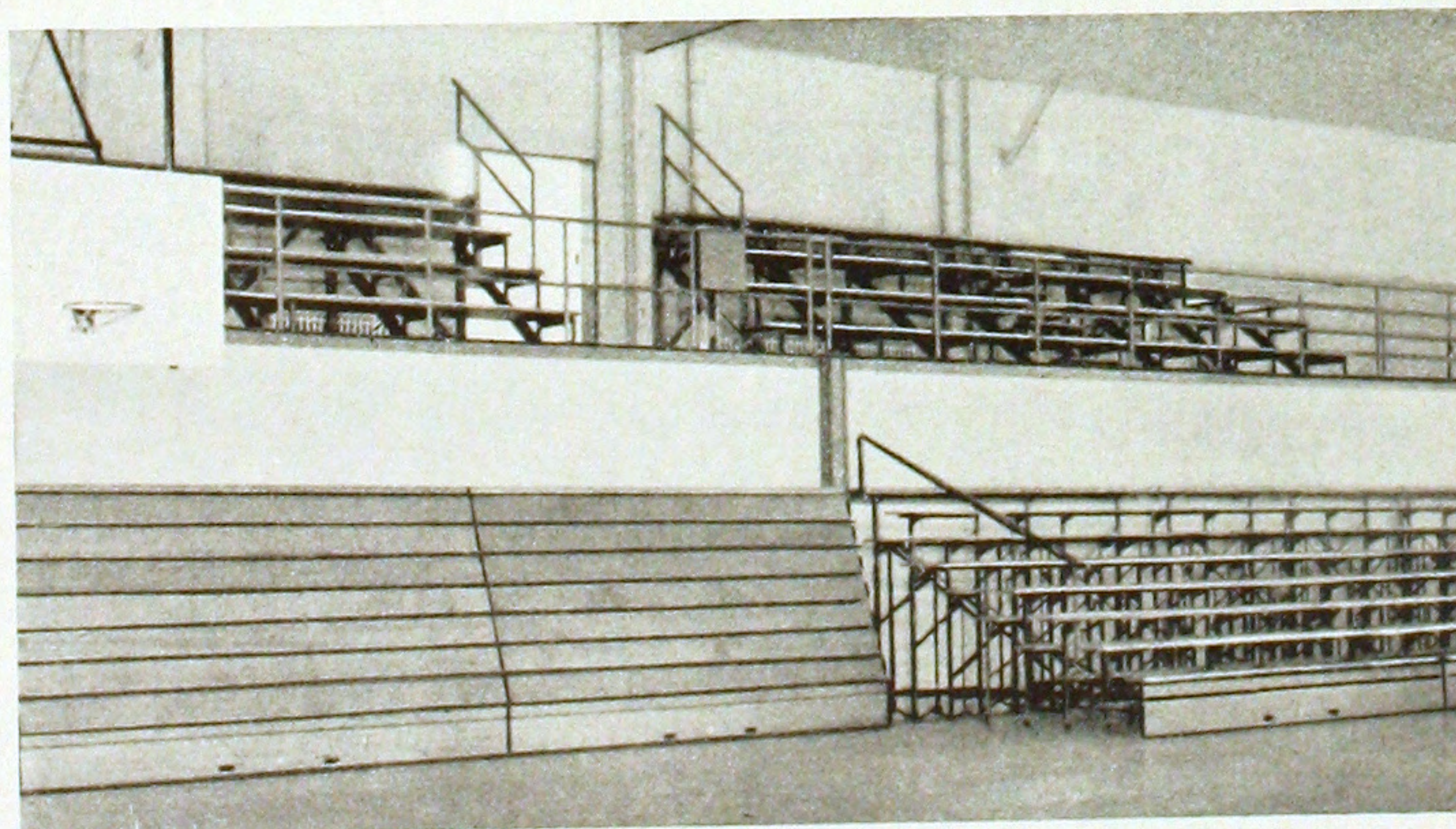
RICHARDS-WILCOX CANADIAN CO. LTD.

FOLDE~~R~~-WAY



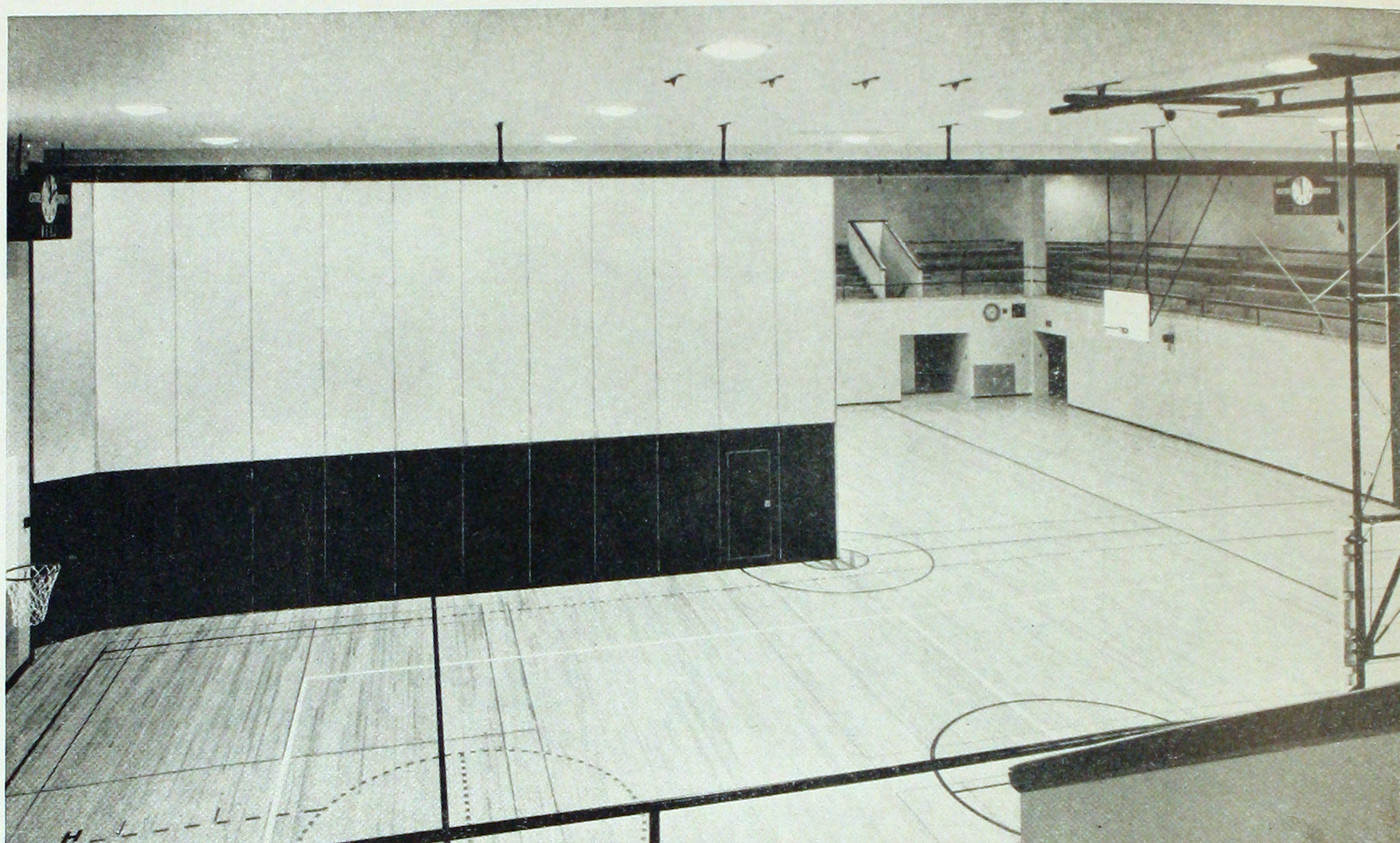
Folding Partitions

There are a great many schools and gymnasiums in Canada equipped with Richards-Wilcox Partition Doors. FoldeR-Way is a new development, fully automatic and electric—a new high standard in school equipment.



Folding Bleachers

Patented and manufactured since 1909 by Horn Brothers Manufacturing Company, U.S.A., now made in Canada by Richards-Wilcox Canadian Co. Ltd.



Automatic Electric FoldeR-Way Partition Installation. Opening size 86' x 24' with R-W No. 888 Soundproof Doors.

Fully Automatic Electric *FoldeR-Way* Partition

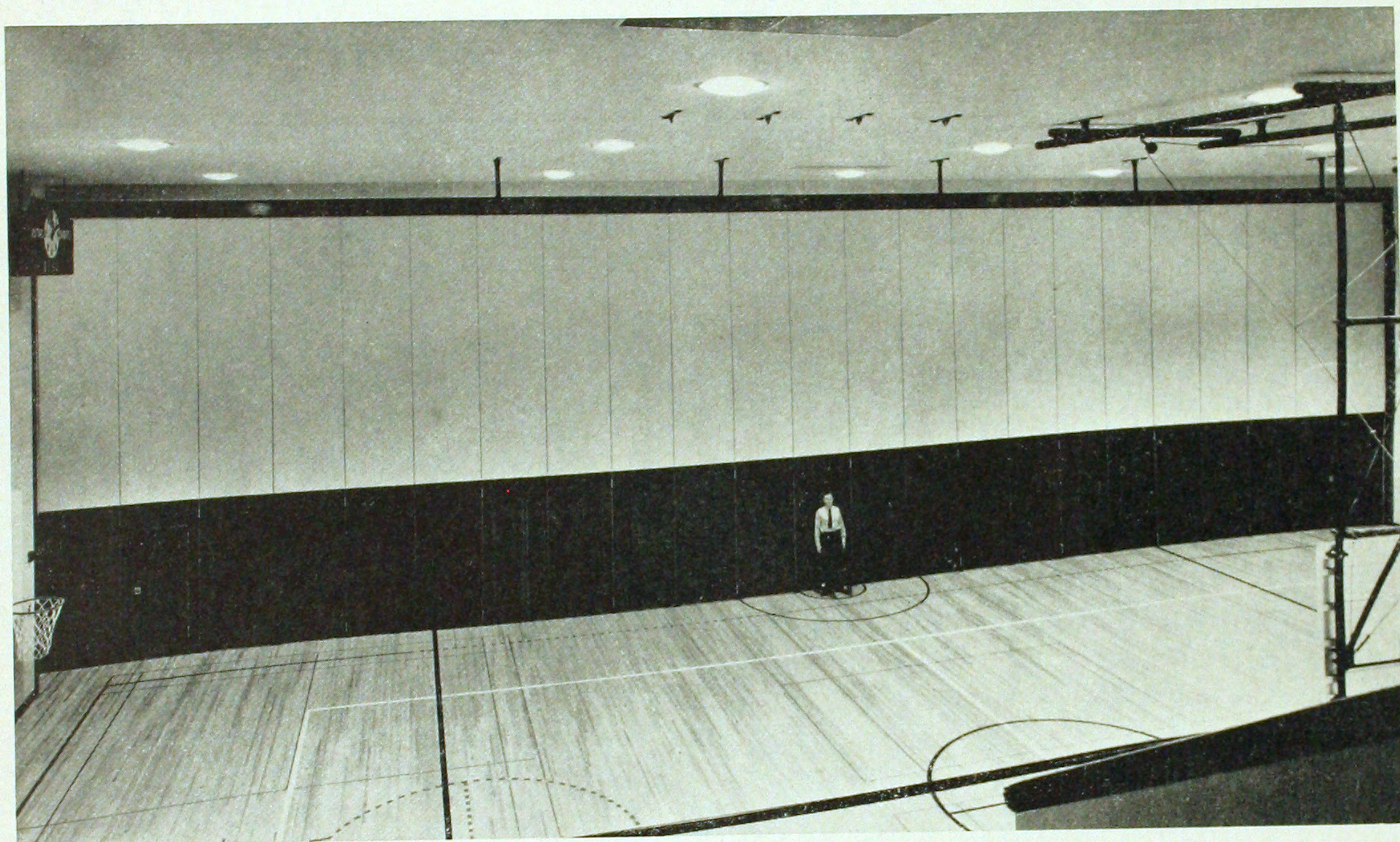
The Richards-Wilcox FOLDER-WAY Partition No. 888 is designed for School Gymnasiums, Auditoriums, Arenas, Church Assembly Halls, Stages and all other wide and high openings which must be effectively closed against transmission of both light and sound.

FoldeR-Way Partitions are fully automatic and electrically operated by turning of the switch key in control switch.

All folding, unfolding, locking and sound-proofing operations are effectively accomplished by the electric operator and its auxiliary equipment.

As no manual assistance is required from the attendant in charge, the entire operation of the partition is fool-proof.

No floor tracks or guides are used as the entire weight of the partition is directly supported from truss or header in ceiling.



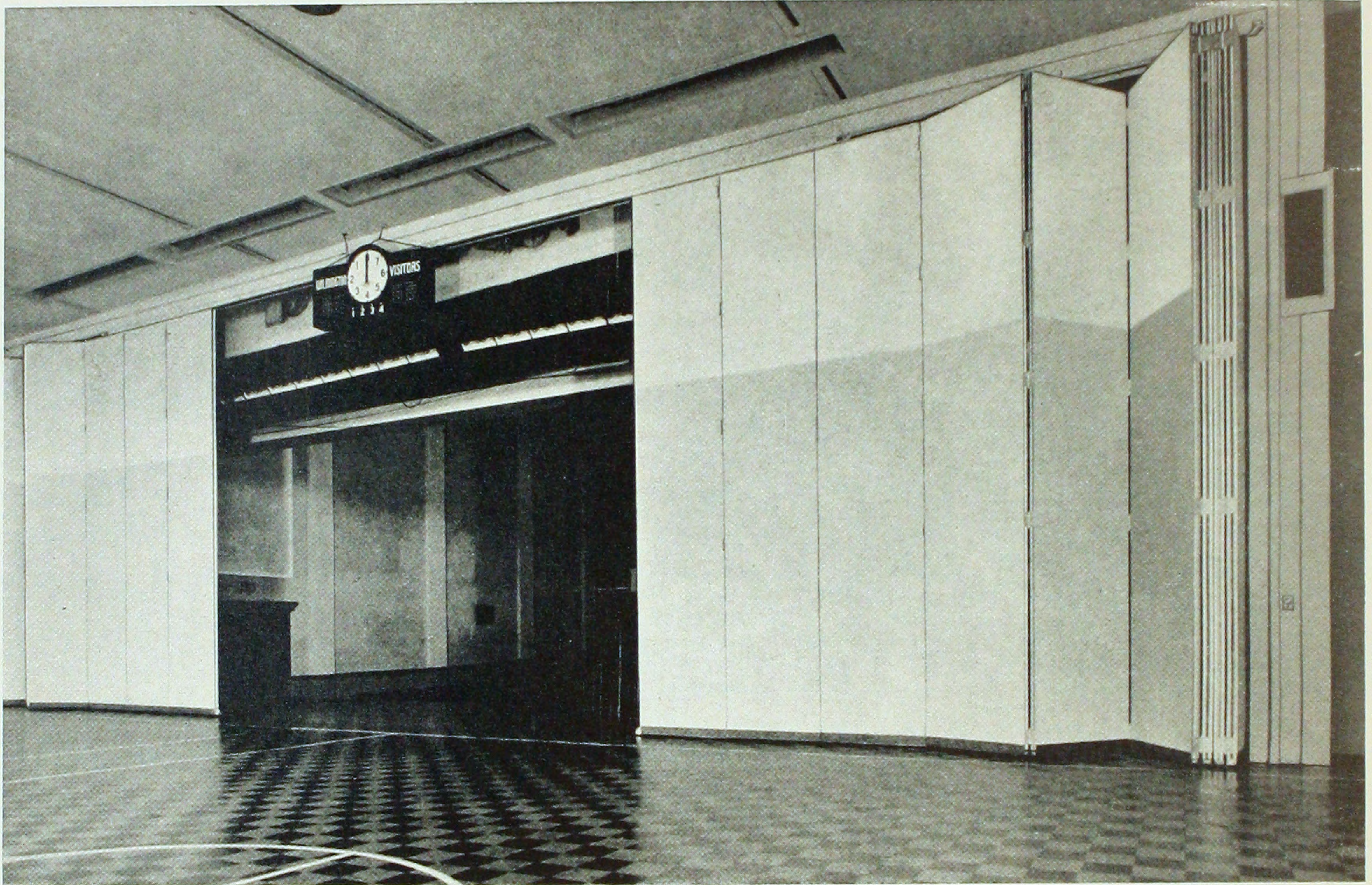
FOLDER-WAY PARTITION---CLOSED---divides gymnasium into two areas for boys and girls Physical Training or other purposes. Doors effectively locked and sealed to floor *without use of floor tracks, guides etc.*



FOLDER-WAY PARTITION---OPEN---entire area available for sports or assemblies.

FULLY AUTOMATIC - - - SAFE - - - FOOL-PROOF

Automatic Electric *FoldeR-Way* Partition



Automatic Electric FoldeR-Way Partition 64' x 22' bi-parting with No. 888 duck-covered Sound-retarding Doors.

OPERATION

FoldeR-Way partitions are fully automatic. If the partition extends across the opening, it is merely necessary for the attendant to turn the key in the control switch. The partition is instantly released from locked position and completes the automatic folding of the doors at the jamb or pocket.

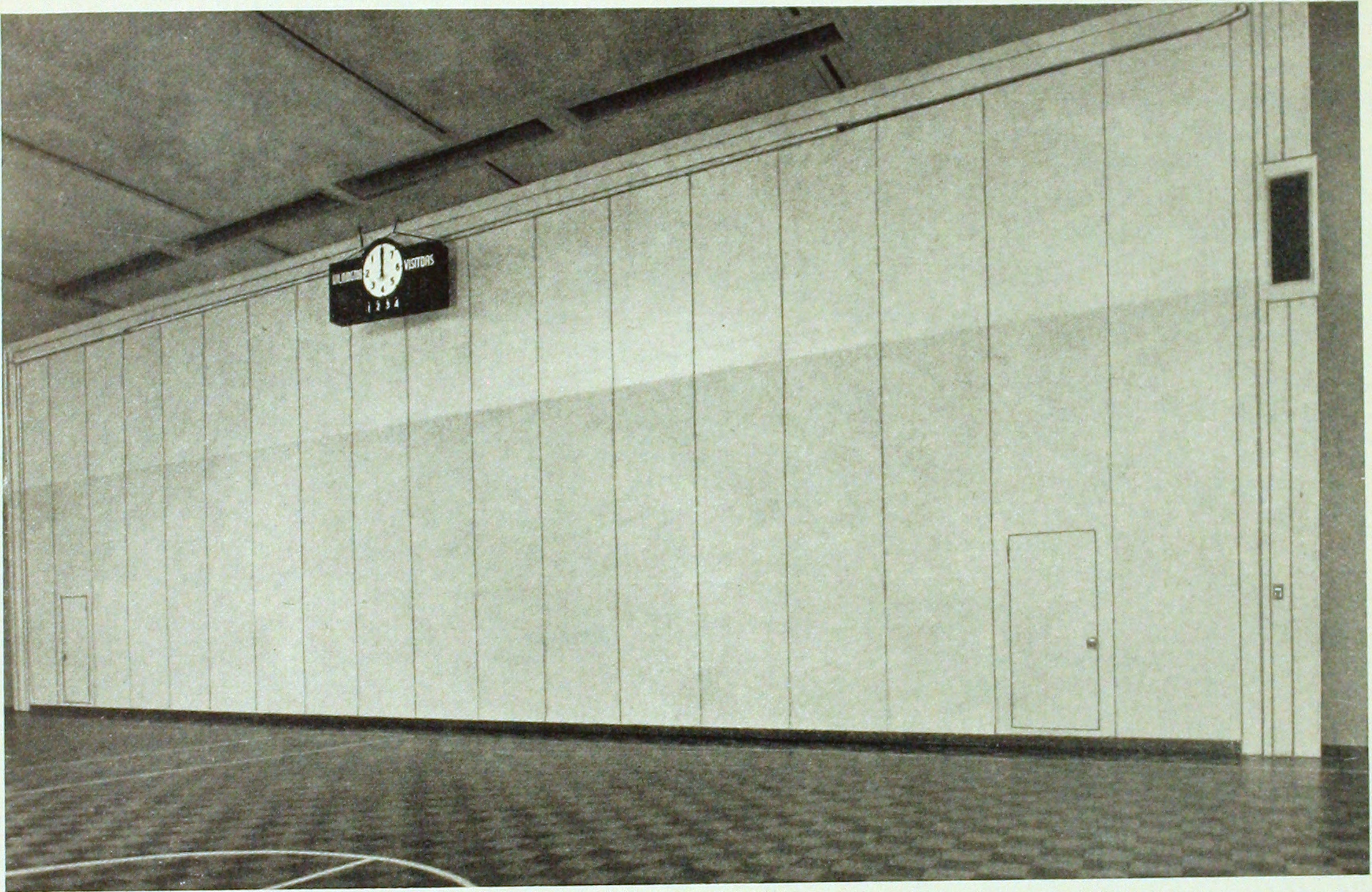
To close the partition, a single turn of the key in the opposite direction causes all partition doors to close and lock automatically. The partition also pressure-seals itself to the floor. The wide clearance gap between the bottom of the partition doors and the floor is thereby effectively closed; the partition is thoroughly sound proofed and the doors positively locked to the floor *without the use of floor bolts, guides, floor tracks or manually operated sealing strips*.

If the partition is of the bi-parting type, all operations are perfectly synchronized to permit halves to operate simultaneously.

The entire partition is carried on four-wheel ball-bearing swivel hangers operating in No. 888 Heavy-duty lock-joint top track, which is fastened directly to the truss or header with adjustable steel brackets.

Continuous roller chain concealed within the head and operating over ball-bearing sprockets, extends across the entire opening. It is rigidly attached to the drive hanger located on the door farthest from the jamb toward which the partition folds when opening. The upper run of this drive-chain is equipped with rollers which prevent the chain from sagging below the top track when the doors are moved into their folded position. Each door is provided with a heavy duty ball-bearing top stop roller which guides the doors between steel lined top stops.

Automatic Electric *FoldeR-Way* Partition



FoldeR-Way Folding Partitions Afford---Economy---Flexibility---Utility In Gynmasium Construction

AUTOMATIC FOLDING IN POCKET

By providing an entirely separate pocket or recess into which the partition doors are folded, it is possible to obtain a clear, unobstructed opening extending from wall to wall. This arrangement is recommended in all cases where space is available.

To simplify the construction of the pocket and the operation of the doors, FoldeR-Way Partitions include an automatic folding mechanism which permits the entire battery of partition doors to move straight into the pocket until the first door nearly reaches the rear wall of the recess, at which time the folding action is automatically started and completed.

When the doors are closed across the opening, the partition extends only from the inside face of the pocket doors to the opposite gymnasium wall. For further details of this operation, see page 7.

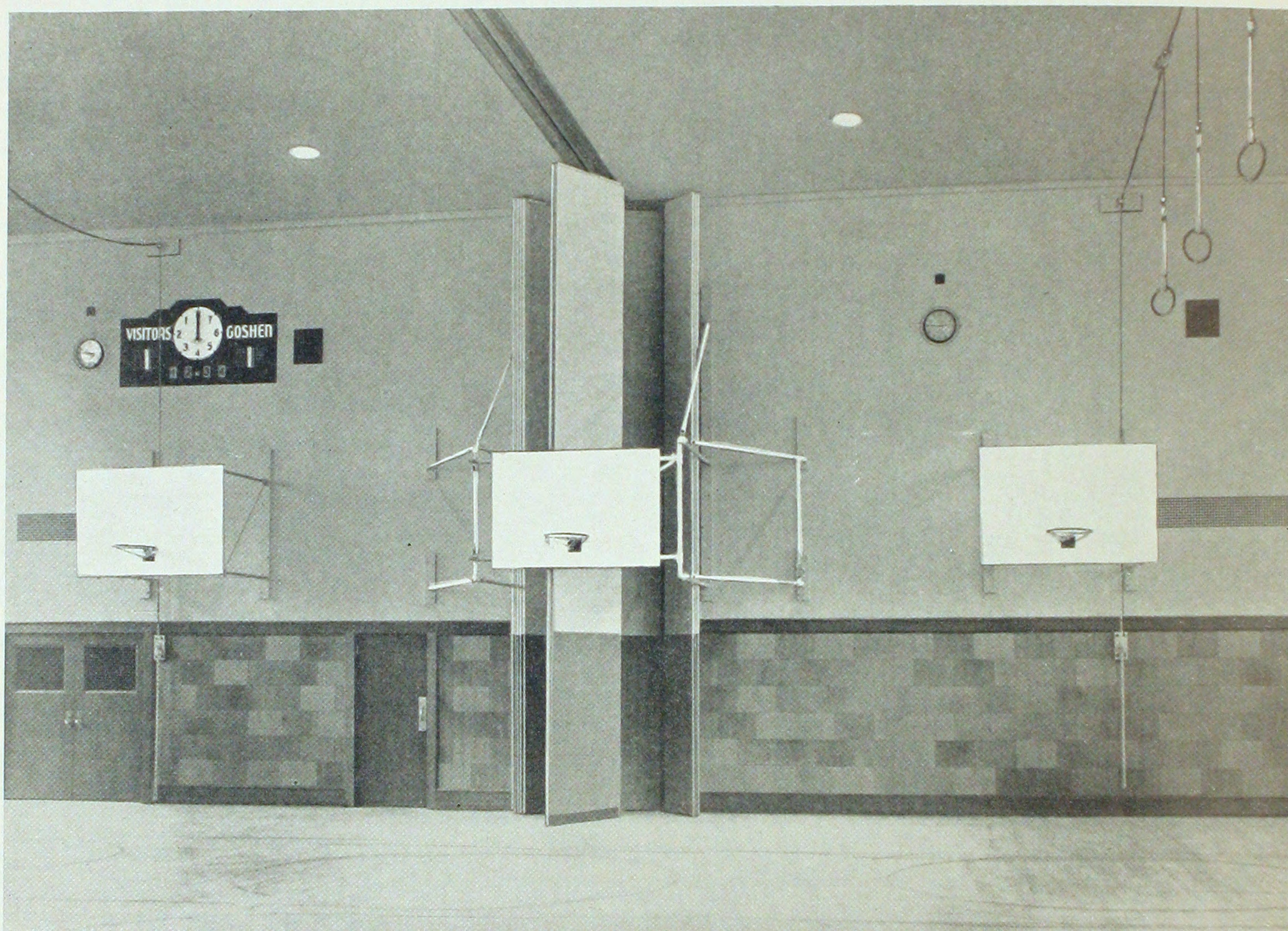
AUTOMATIC FOLDING AT JAMB

All FoldeR-Way Partitions fold automatically. The full size jamb door opens automatically with the first movement of the electric operator. The movement of the partition is not in any way *dependent upon the skill of the attendant*.

FULL SIZE DOORS

The FoldeR-Way Partition makes possible the use of full size, equal width doors across the entire opening. No half doors are required. All doors folding toward one jamb are hinged together and operate in true accordion fashion. Recommended door width 4'-0".

Automatic Electric *FoldeR-Way* Partition



When partition is partly folded as shown, or entirely enclosed within the pocket, a third practice basket can be swung into place as indicated.

AUTOMATIC SOUNDPROOFING

The FoldeR-Way Partition has the same high degree of soundproofness as a plastered wall.

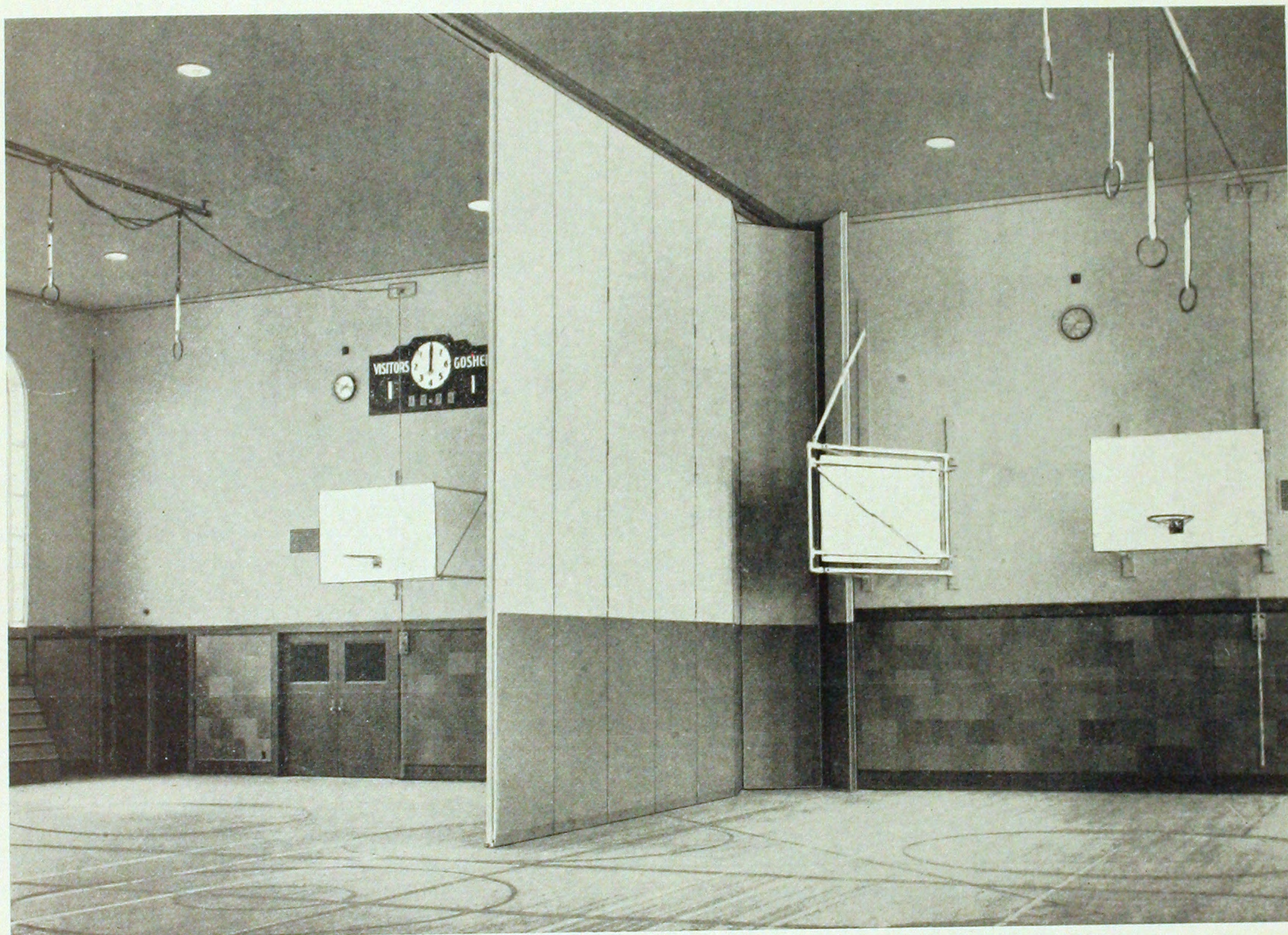
No. 888 FoldeR-Way Partition doors are 3" thick for standard installations. The surfaces on both sides of the doors from floor to ceiling are covered with No. 10 duck applied to plywood base. Sound insulation consists of two $\frac{1}{2}$ inch layers of sound retarding insulating material with dead air space between.

The hinged edges of alternate doors are rabbetted from floor to ceiling and sponge rubber inserted in the rabbetts. The nosing on edges of doors meeting rabbett, compresses the rubber making a tight seal.

In the bottom member of each door there is a heavy seal of molded rubber mounted on springs. When the partition is in fully extended position, the seals are automatically pressed down against the floor which makes the partition soundproof and prevents lateral movement of the entire partition.

Both side jambs are insulated against the transmission of sound by application of rubber gaskets. The clearance gap between the top of the door and the under side of the soffit is also effectively closed by means of seals.

Automatic Electric *FoldeR-Way* Partition



In this installation, partition folds one way into pocket. Pocket doors may be manually or electrically operated.

POCKET DOORS

When a pocket is provided for a FoldeR-Way automatic Partition, the use of pocket doors is recommended. Two standard methods of operating pocket doors are available.

1-Automatic Type

Both pocket doors are hinged at the jamb and operate automatically in conjunction with the partition doors. With the first opening movement of the partition, the pocket doors immediately swing into their fully open position. When the partition is extended into the closed position, the pocket doors close automatically, making a tight soundproof joint.

The pocket doors do not require any attention from the attendant controlling electric operator from the key switch, because they *open, close, lock, and unlock automatically with the turning of the switch key.*

The pocket depth and the position of the partition doors within the pocket should be arranged so that the last door to enter the pocket when opening will stand practically flush with the jamb or gymnasium wall and act as an effective pocket closure.

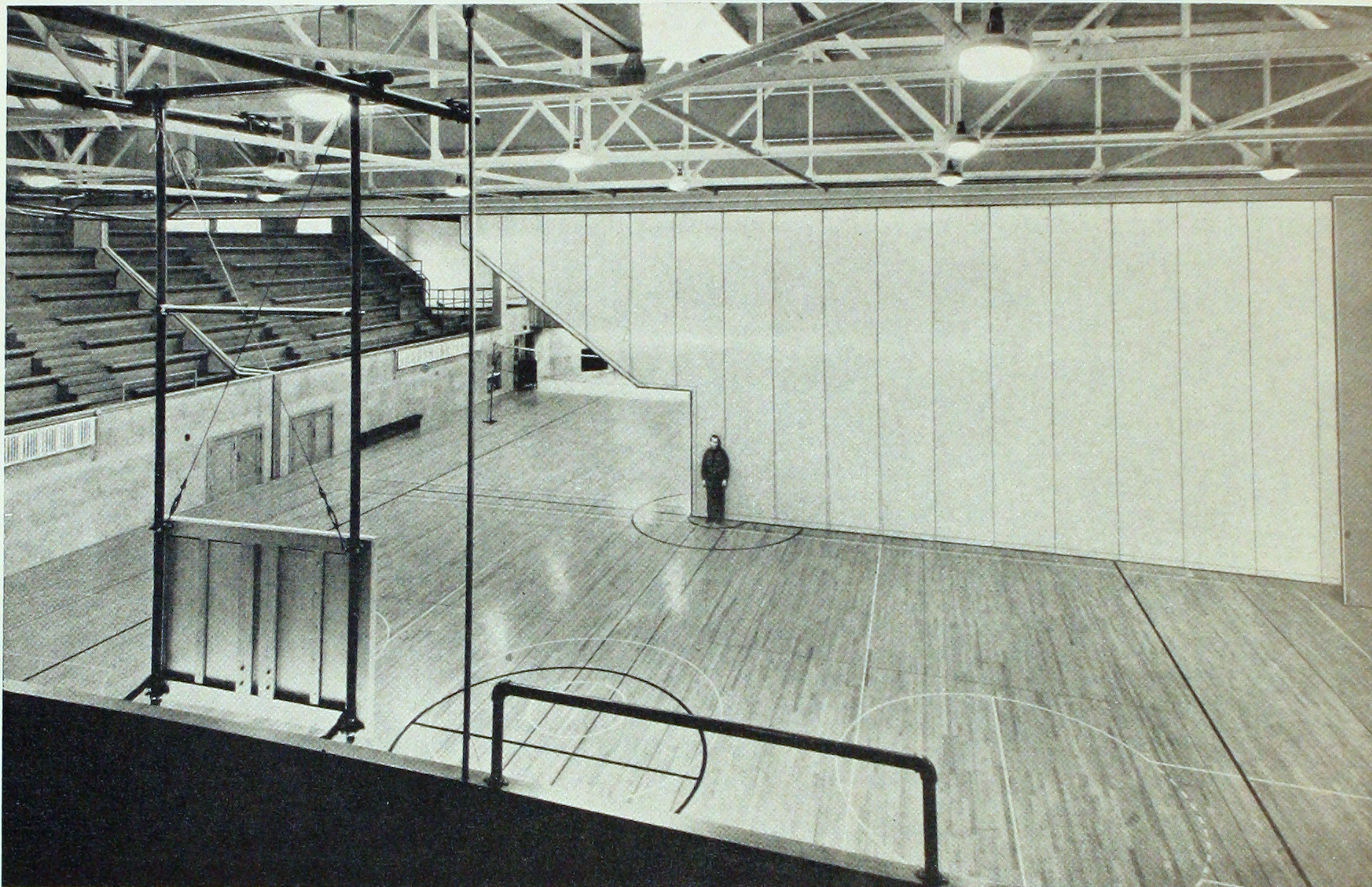
Refer to Figure A-7, page 13.

2-Manually Operated Type

This type is most satisfactory where it is desirable to keep the pocket doors closed at all times; that is, not only when the partition doors are extended across the opening, but also when they are folded within the pocket.

These doors are provided with necessary bolts and latches and must be opened manually before the partition can be moved. Manually operated pocket doors, see Figure A-3, page 12, are equipped with safety device which prevents operation of partition doors unless pocket doors are in fully "open" position.

Automatic Electric *FoldeR-Way* Partition



Fully Automatic "FoldeR-Way" Partition, 95' wide, 22'-6" high designed to fit over the balcony. Illustration shows partition in semi-open position. When fully closed will provide two separate gymnasiums.

AUTOMATIC BALCONY CLOSING

When it is desirable to close the space above the balcony without cutting the balcony floor, the partition may be extended over the balcony meeting top of suitable curb through balcony seating.

Curb details are available on request.

GYMNASIUM PLANNING

Modern Gymnasium Planning requires consideration of the following:

Accommodation for daily gymnasium routine for physical development of boys.

Accommodation for regularly scheduled girls' gymnasium training.

Accommodation for gymnasium activities and grandstand seating at events where parents and the public attend, such as Inter-School Games, Home & School Club Meetings and Revenue Producing Assemblies.

Building a separate boys' gymnasium, a separate girls' gymnasium, and a separate arena for events publicly attended is seldom within the financial possibilities.

Three gymnasiums or assembly rooms "in one" are available at reasonable cost by installation of FoldeR-Way Partition, thus achieving economy, flexibility and utility.

Automatic Electric *FoldeR-Way* Partition

SPECIFICATIONS

TYPE—

The sound-retarding folding partitions shall be R-W Fully Automatic Electric "FoldeR-Way" Type as manufactured, installed, and guaranteed by the Richards-Wilcox Canadian Co., Ltd., London, Ontario.

PRINCIPLE OF OPERATION—

The principle of operation shall provide automatic and electric folding and unfolding of all partition doors, automatic locking, automatic unlocking, automatic soundproofing and sealing, with complete electrical control of all operations from the key switch located where shown on the plans. The principle of operation shall provide that a single electric operator located at the top of the opening at the side jamb shall open and close the partition and also accomplish the locking and unlocking operations automatically. The final closing movement shall cause the entire partition to effectively and automatically seal the space between partition and floor against the transmission of sound by compressing the heavy continuous moulded rubber seal and automatically locking all doors in their fully closed position without the use of bolts and keepers.

ELECTRICAL EQUIPMENT—

The electric operator shall be complete with motor, speed reducer, friction clutch, magnetic brake, relays, geared limit switch, key control switch, emergency release mechanism and emergency hand operated mechanism.

OPERATING EQUIPMENT—

The operating equipment shall include roller drive chain operating over ball bearing sprockets, this chain to be equipped with special non-sag roller devices. The supporting track shall be No. 888 lock-joint enclosed type with $\frac{5}{8}$ " round cold rolled steel bar runways, and the track shall be rigidly fixed to the supporting truss by direct attachment through the use of steel track brackets and $\frac{5}{8}$ " threaded drop rods. The principle of operation desired requires that this supporting track shall not be suspended by links or other movable connections but shall be rigidly fastened and locked in place by means of the track brackets and supporting rods. The partition shall be operated on No. 888 heavy duty four-wheel, ball bearing hangers with 3" diameter wheels providing for friction-proof operation. Installation shall also include special 6" x 6" steel butts in cadmium finish, all necessary automatic folding devices, automatic straightening devices, etc.

DOOR CONSTRUCTION—

The partition doors shall be sound-retarding duck-covered flush design 3" thick. The stiles and rails shall be of built-up construction at least $2\frac{7}{16}$ " thick x $4\frac{1}{2}$ " wide. The entire surface of the door shall be covered on both sides with No. 10 duck backed up by a plywood base throughout the entire height of the door. In addition, interior sound insulating construction shall include two $\frac{1}{2}$ " layers of approved insulating material with dead air space between. All edges of the doors shall be equipped with $1\frac{1}{2}$ " fir edge strips as detailed. All rabbeted joints shall be sound insulated with sponge rubber. All doors shall be of equal width. Duck-covered surfaces shall receive one coat of sizing at the shop. Finished trim around the partition shall be furnished and installed as a part of this specification.

WAINSCOT (Optional)

The lower portion of the doors to a height offeet shall be built with plywood or presdwood wainscot of 3-ply material veneered withas shown on R-W details.

POCKET DOORS (Optional)—

The partition shall automatically fold into a pocket enclosed by a pair of similarly constructed pocket doors, which shall be automatically and electrically opened or closed as the partition is opened or closed. (Or manually operated if so specified.)

WICKET DOOR (Optional)—

Partition installation shall include a wicket door complete with latch, flush drop handles, hinges, soundproof seals, and threshold.

GUARANTEE—

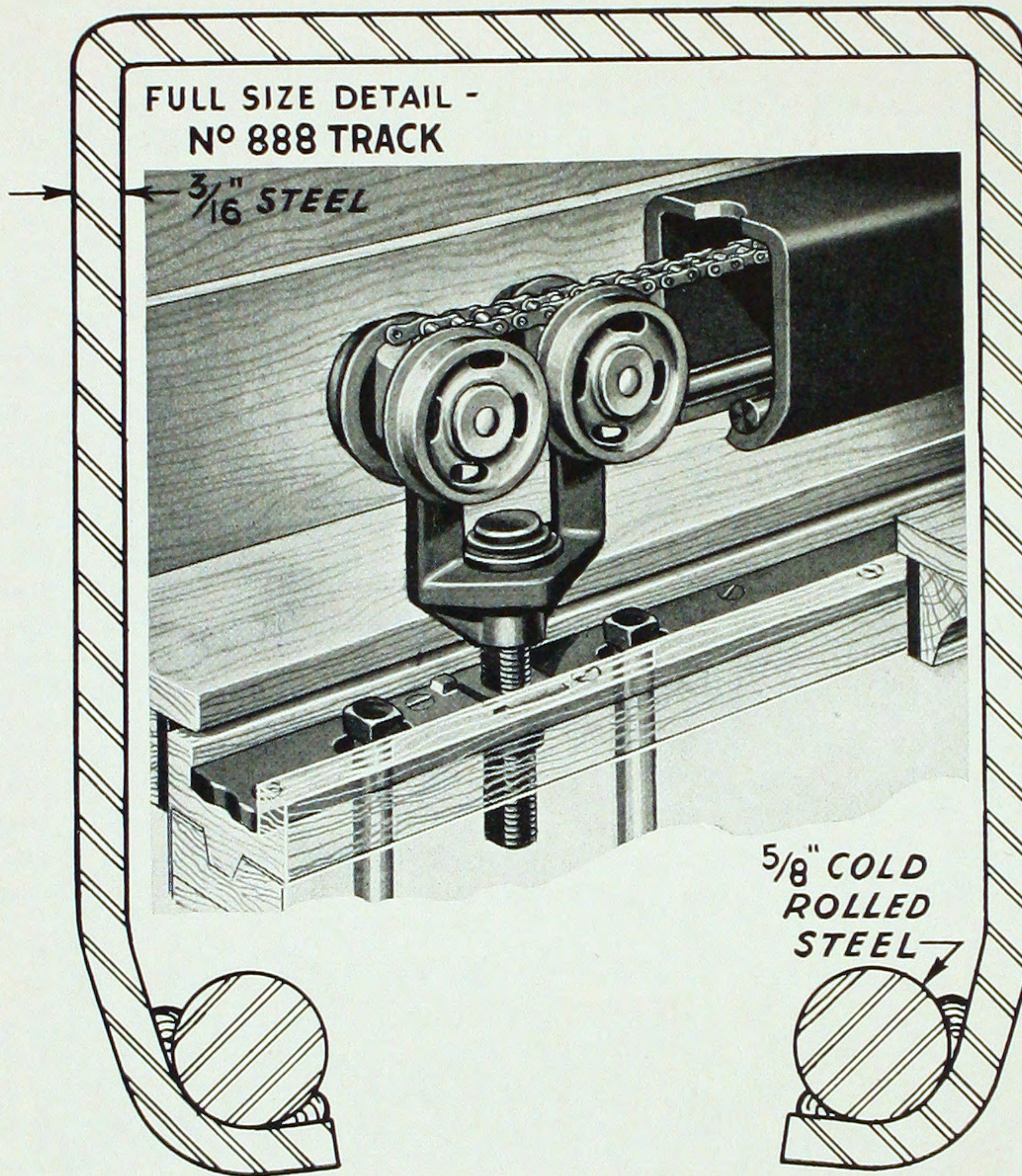
Upon completion of the installation, the Richards-Wilcox Canadian Company Ltd. shall furnish its guarantee against defects in material and workmanship for a period of one year after date of installation.

WORK BY OTHERS—

All rough bucks, conduits, outlets, wiring and all necessary electrical work, filling, staining, painting, and punching of truss to receive track bracket bolts shall be by others in accordance with R-W standard details approved by the Architect.

FOR PRICES AND ADDITIONAL DETAILS, R-W ENGINEERS AND SALESMEN ARE AT YOUR SERVICE. LIST OF BRANCH OFFICES INSIDE FRONT COVER.

Fully Automatic Electric *FoldeR-Way* Partition



No. 888 HANGERS AND TRACK

R-W FoldeR-Way Partitions are operated on No. 888 Hangers and No. 888 Track—a heavy duty combination. The 3" diameter hanger wheels are accurately machined so as to provide practically a line contact with the cold rolled steel bar runways of the track.

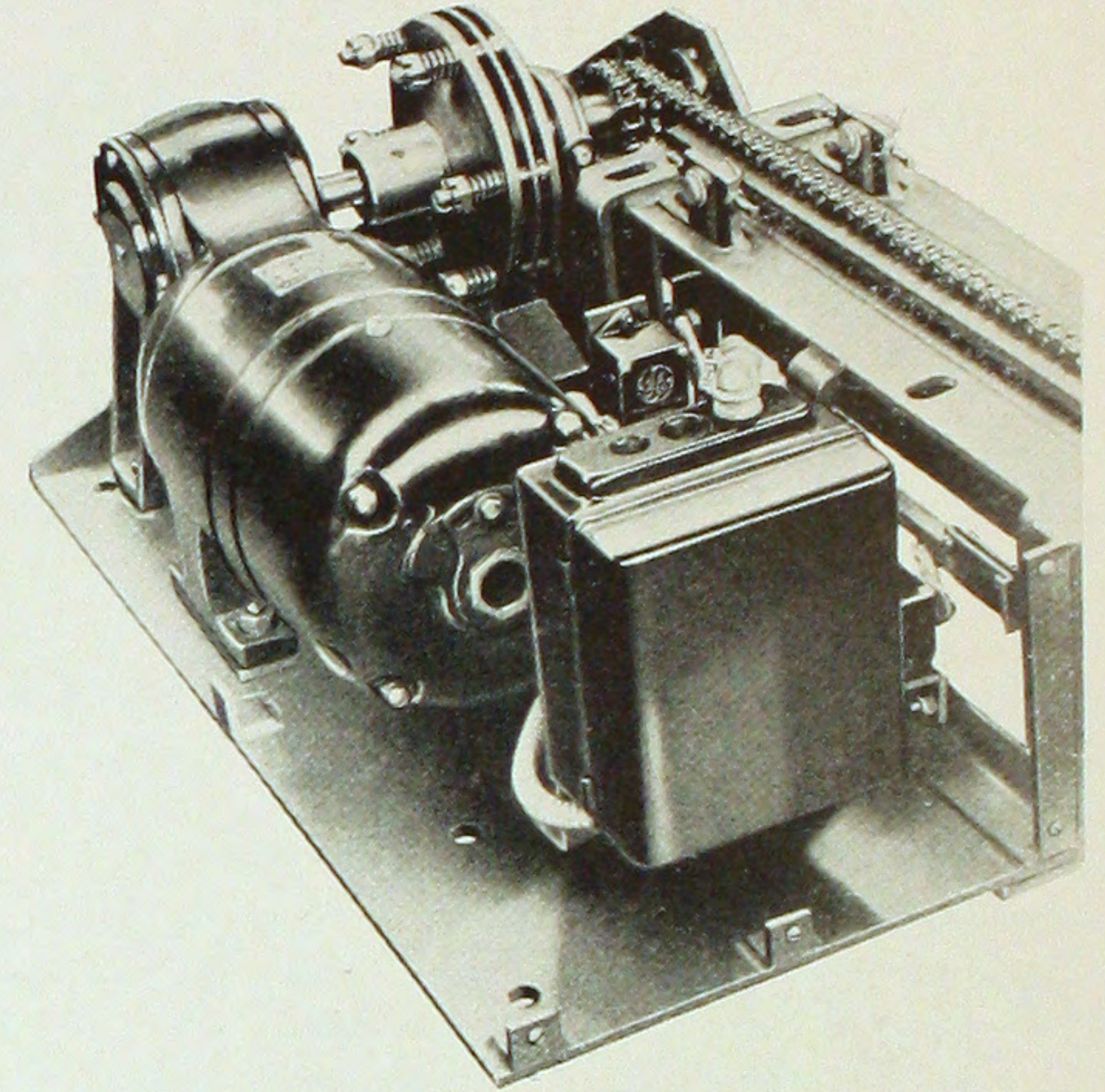
INSTALLATION

Fully Automatic Electric FoldeR-Way Partitions are manufactured complete by R-W and installed by factory-trained installers. This centralizes responsibility and guarantees a permanently satisfactory installation.

WEIGHT OF PARTITION

Assuming the door construction to be R-W No. 888 3" design, the total weight of the entire partition including doors, trim, and hardware, may be estimated at 8½ lbs. per square foot of opening. For example, a partition 80' x 20' would weigh approximately 13,600 lbs., which would be uniformly distributed across the entire width of the opening *except where doors fold at one or both jambs.*

Doors proper weigh approximately 6½ lbs. per square foot. Since types of door construction involve different weights, it is always advisable to verify preliminary estimates with the R-W Engineering Department before finally designing trusses.

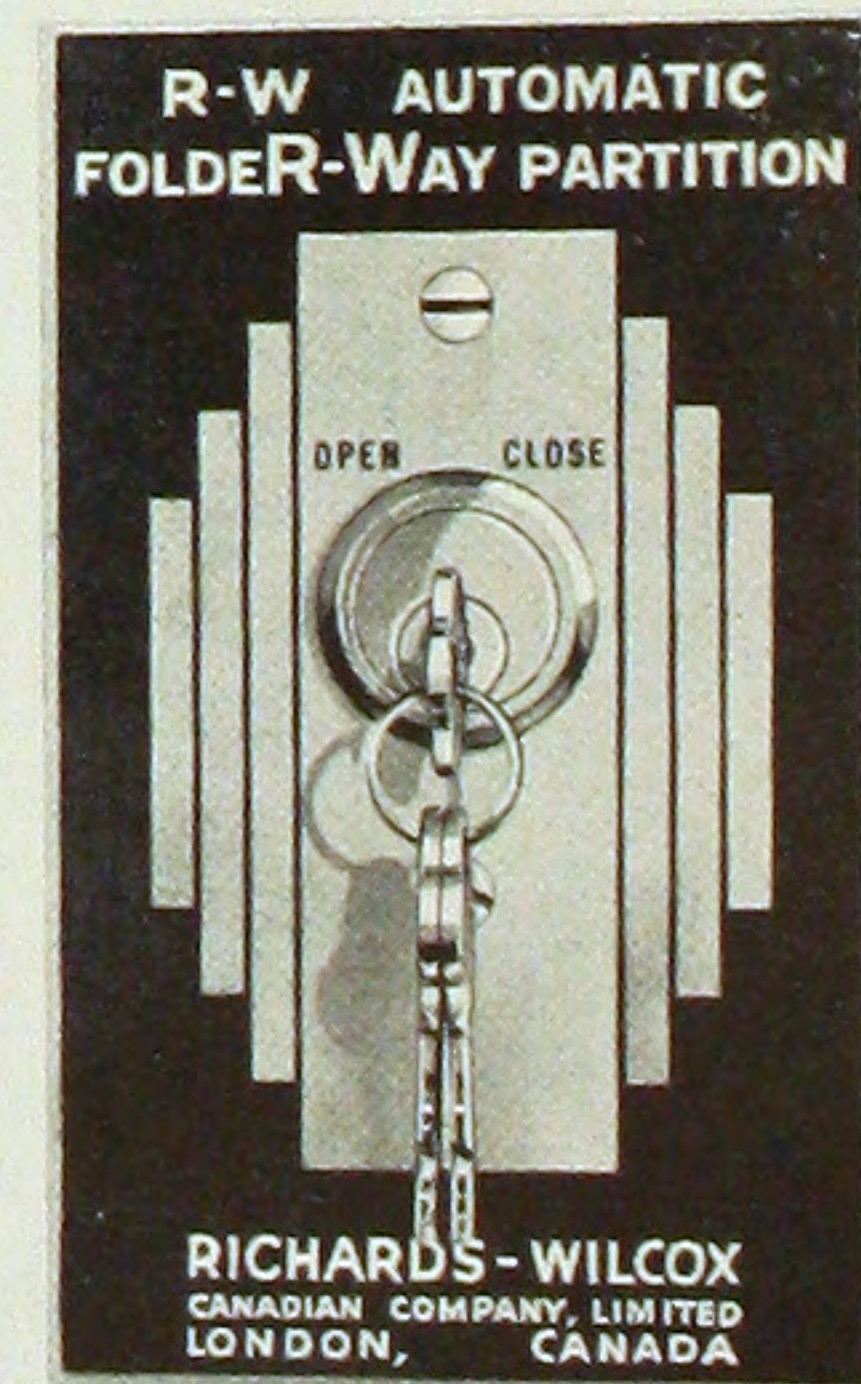


THE POWER UNIT

When installed, this unit is protected by dust proof cover. One-half H.P. Motor used for openings up to 70' wide, three-quarter H.P. Motor for openings over 70' wide. Three Phase current supply is required for Power Unit.

ELECTRICAL EQUIPMENT

The electrical equipment includes motor, speed reducer, magnetic brake, relay, friction clutch, limit switches and key switch with OPEN --- STOP --- CLOSE control



KEY SWITCH

The KEY to FOOLPROOF operation. May be located on side wall adjacent to partition, or any other convenient place.

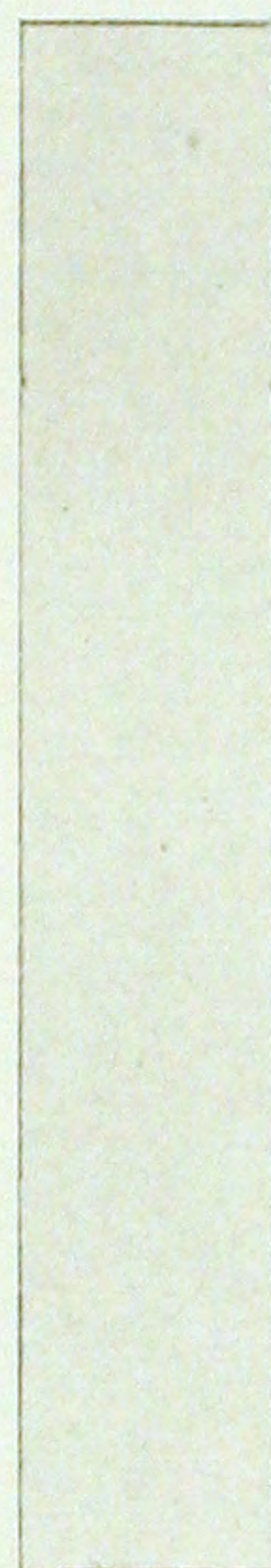
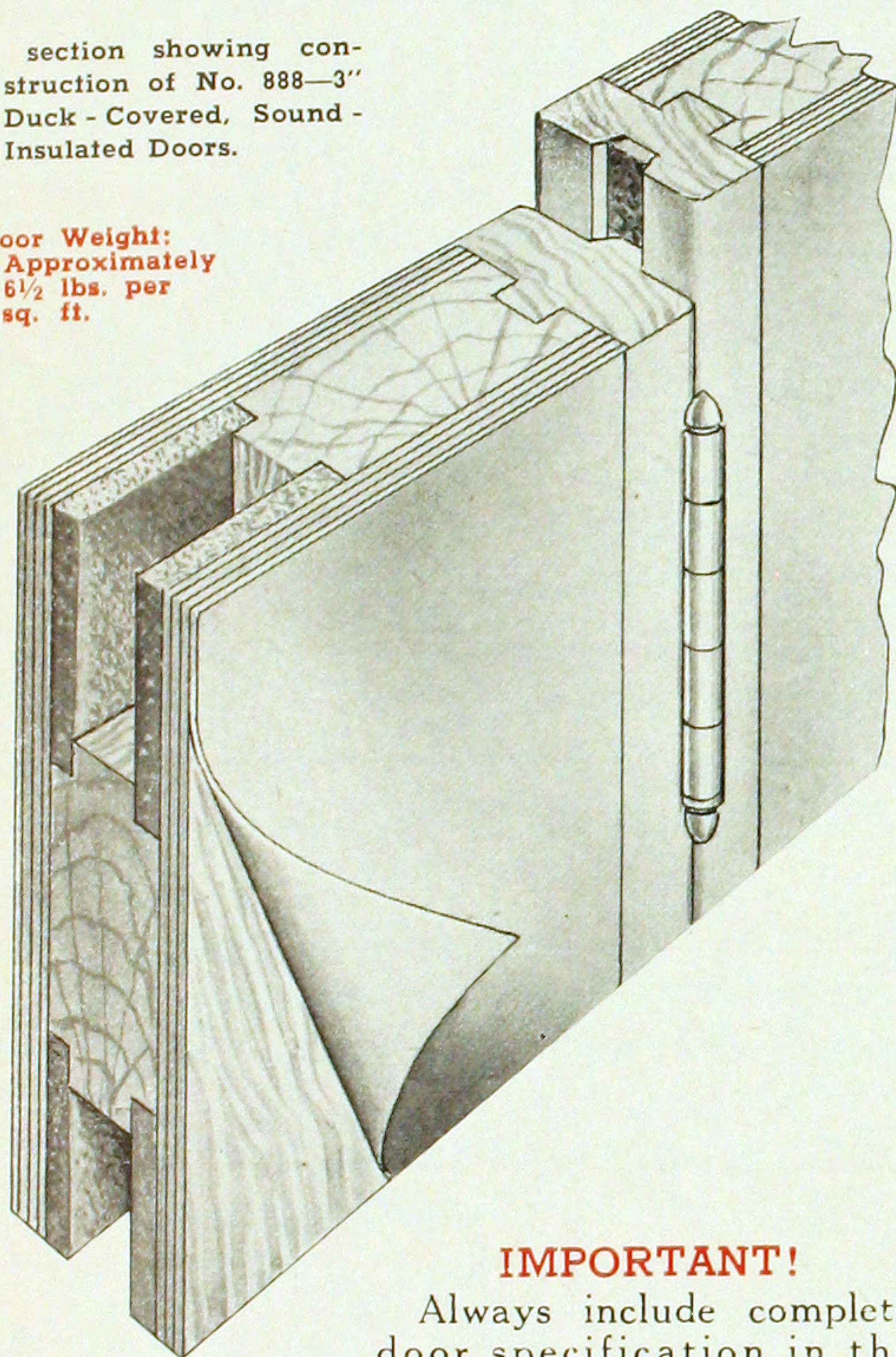
EMERGENCY OPERATION

The electric operator is provided with an emergency release controlled from the floor level so that in the event of a temporary interruption of the electric current the partition can be operated manually

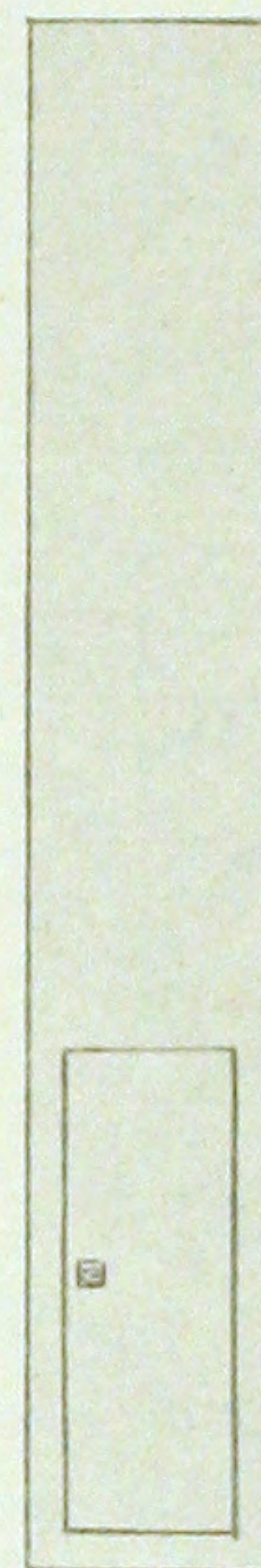
Duck-Covered Sound-Insulated *FoldeR-Way* Doors

A section showing construction of No. 888—3" Duck-Covered, Sound-Insulated Doors.

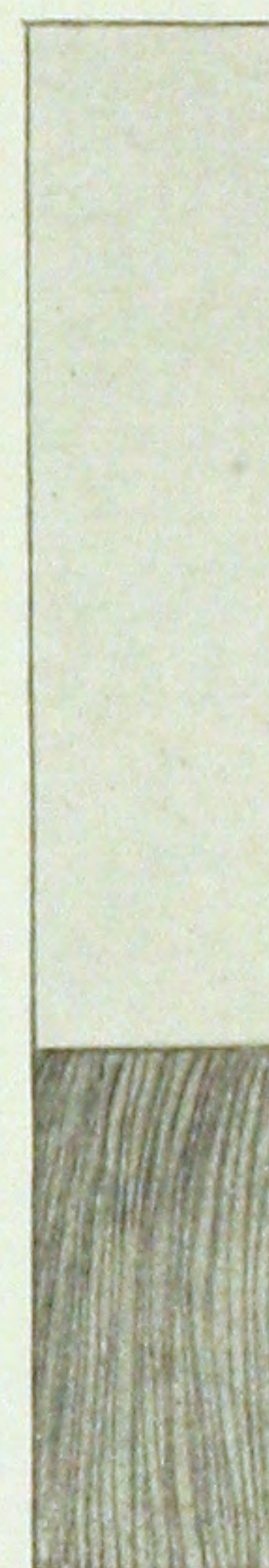
Door Weight:
Approximately
6½ lbs. per
sq. ft.



No. 888



No. 888 with
wicket door.

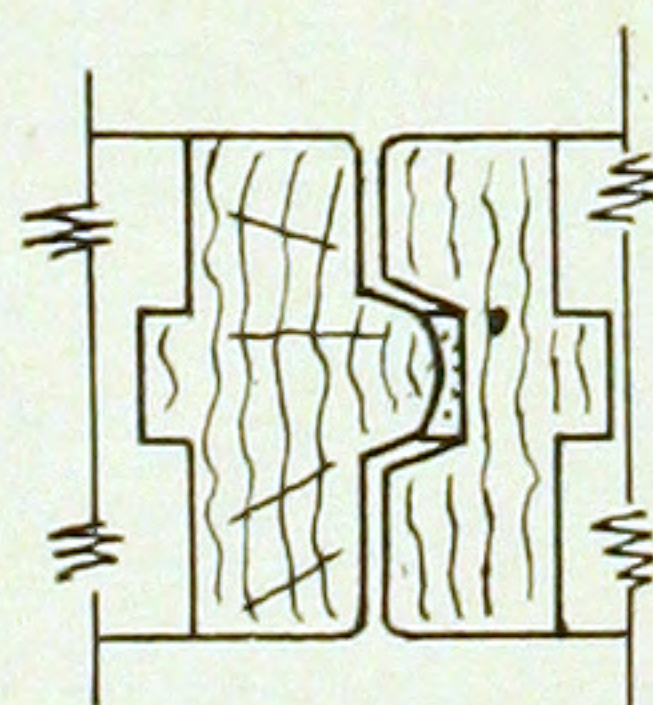


No. 888
A and B

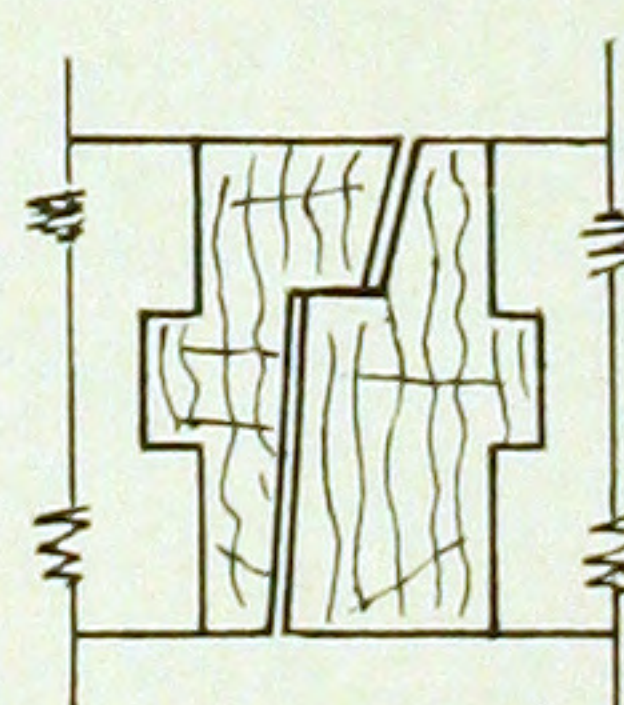
TYPICAL ELEVATIONS ILLUSTRATED ABOVE

IMPORTANT!

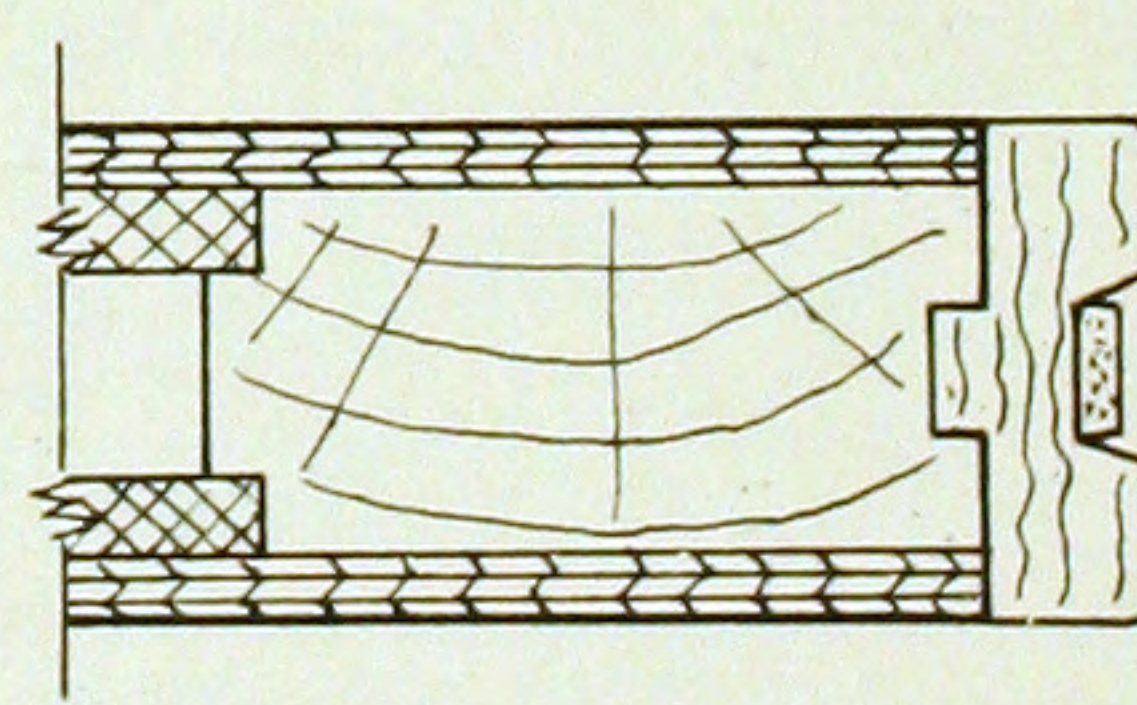
Always include complete door specification in the paragraph entitled "DOOR CONSTRUCTION" which is an integral part of every "FoldeR-Way" Partition Specification.



Rabbet Detail



Wicket Door
Rabbet Detail



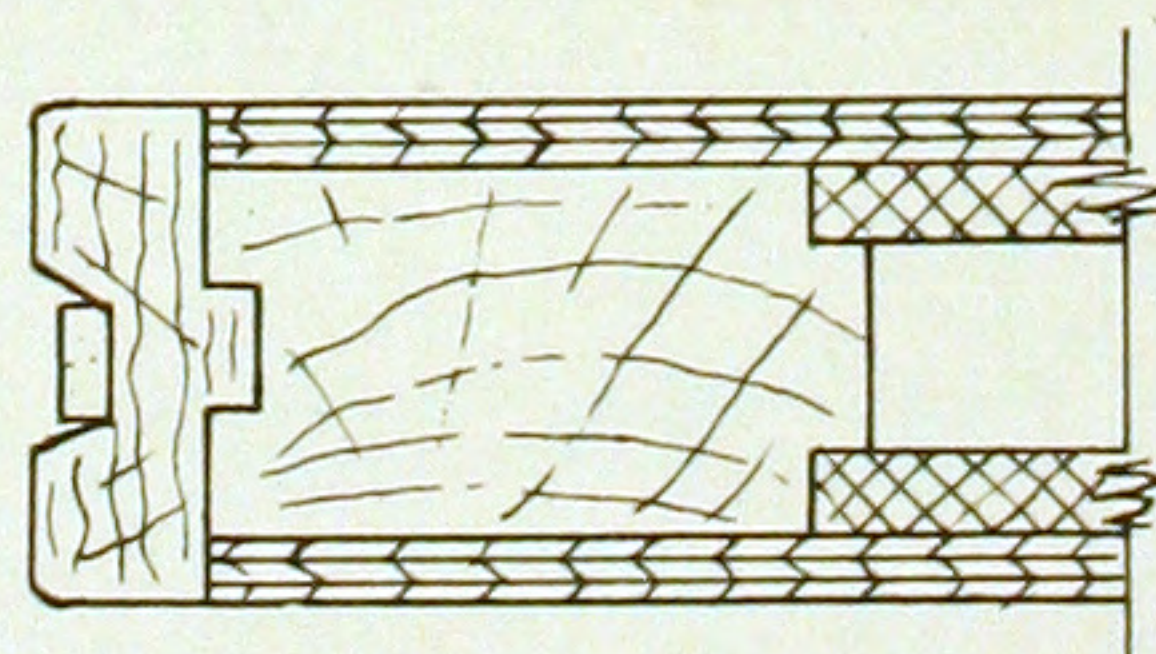
No. 888
ENTIRE DOOR IS DUCK
COVERED ON BOTH SIDES
No. 888 soundproof doors may
also be constructed with A and B
wainscots.

DOOR CONSTRUCTION

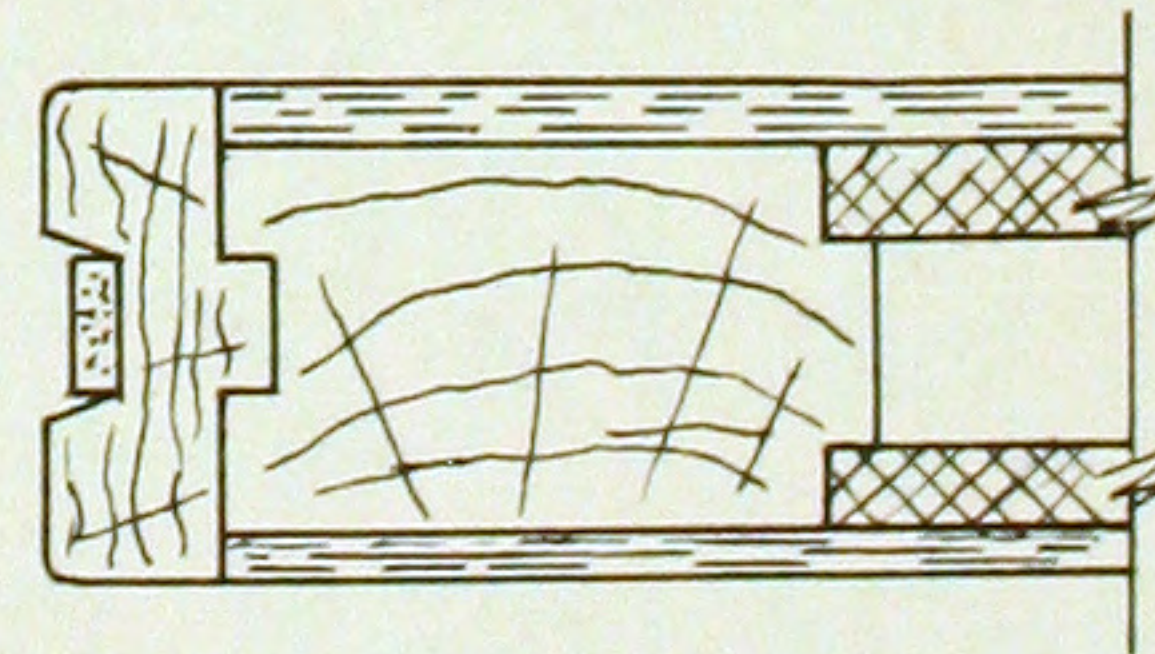
The R-W Fully Automatic Electric "FoldeR-Way" Partition is 3" thick for all standard applications, such as gymnasiums, auditoriums, stages, etc. Duck-covered, sound insulated, doors provide a sound-retarding construction which effectively reduces sound originating on one side to a level which is below the normal sound level in the room on the opposite side of the partition.

All stiles and rails are of built-up construction, mortised and tenoned. All duck-covered surfaces are backed up by layers of sound insulating and wear-resisting materials. Rabbeted joints are insulated with sponge rubber.

When doors are extremely high as in gymnasium installations, a wainscot of presdwood, plywood or other similar material may be used---No. 888 A and B.



No. 888A with plywood wainscot.
(Upper portion of door duck
covered.)



No. 888B with Presdwood wain-
scot. (Upper portion of door
duck covered.)

STANDARD DOOR SECTIONS THRU WAINSCOT

WICKET DOORS

If passage is required through the partition, a wicket door may be installed in any one of the large partition door sections. A standard wicket door is 6'-6" high and is equipped with flush hardware and Yale latch.

Automatic Electric *FoldeR-Way* Partition

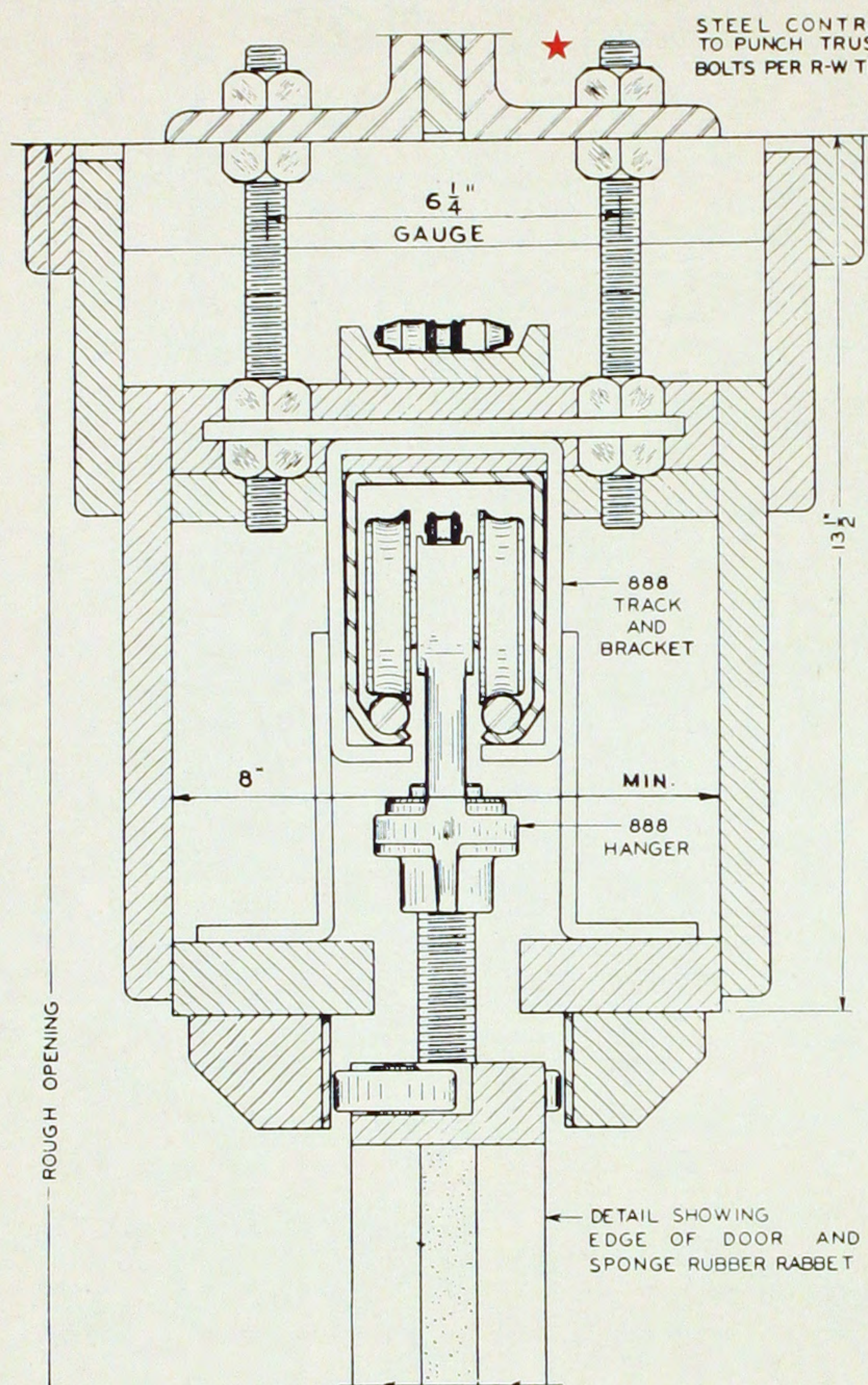


FIG. A-1
HEAD SECTION
SHOWING
LOCKED POSITION OF AUTOMATIC
SOUNDPROOFED PARTITION
WHEN DOORS ARE CLOSED
SCALE: 3" = 1'-0"

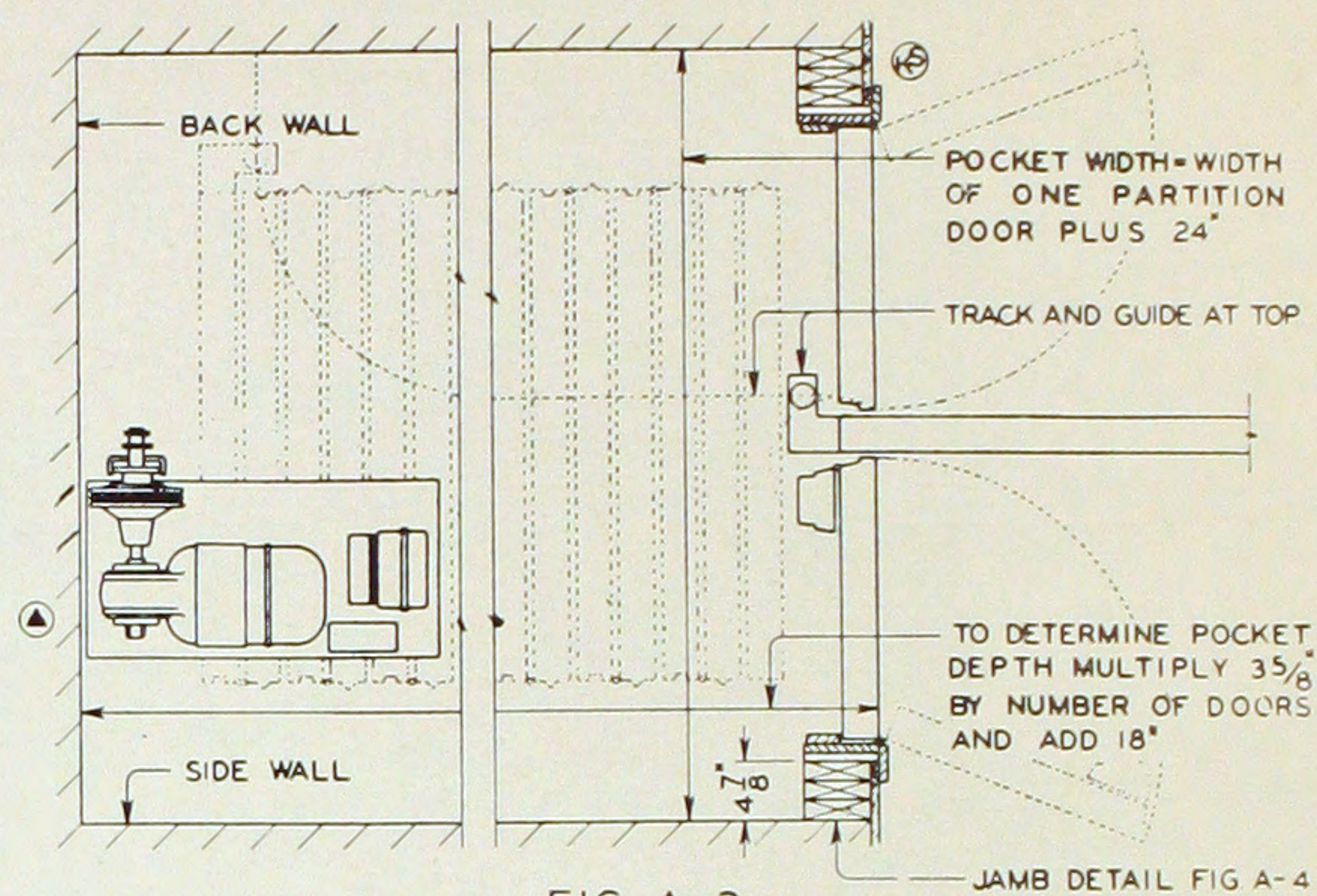


FIG. A-3
TYPICAL PLAN OF POCKET SHOWING
MANUALLY OPERATED POCKET DOOR
REFER TO FIG. A-4
(DOTTED LINES SHOW DOORS IN POCKET)

The architect to make provision in plans for following construction:

★**SUPERSTRUCTURE**—provide header beam for support of partition and mechanical equipment—template for bolt-spacing will be supplied by R-W (Fig. A-1)

SPACE—for partition to fold against wall(s) or wall pocket(s) to accommodate partition in folded position. (Figs. A-3, A-4, A-7, A-8, A-10, A-12, A-13)

Construction details available on request.

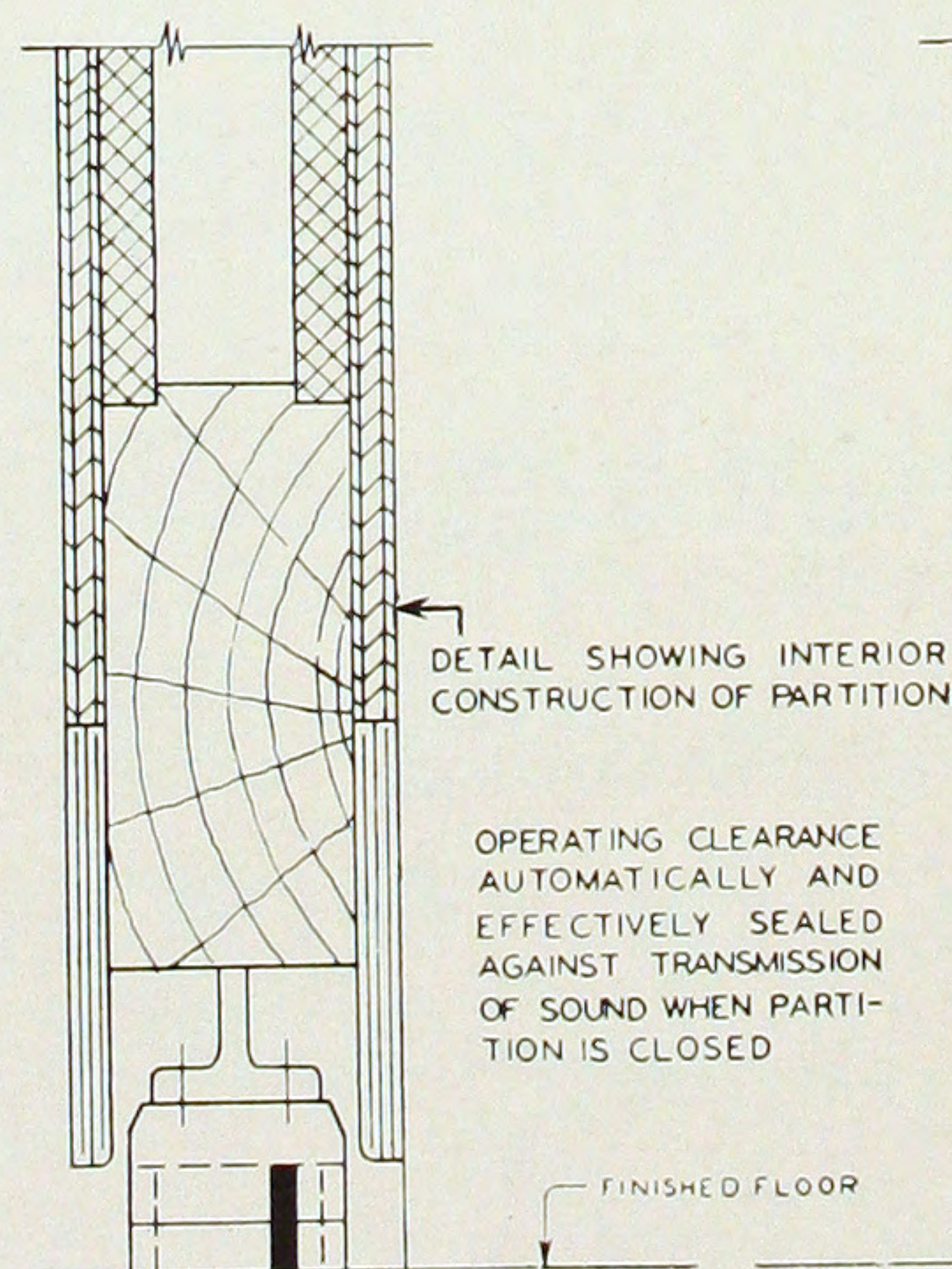


FIG. A-2
SHOWING
RAISED POSITION OF AUTOMATIC
SOUNDPROOFED PARTITION
WHEN DOORS ARE OPERATING
SCALE: 3" = 1'-0"

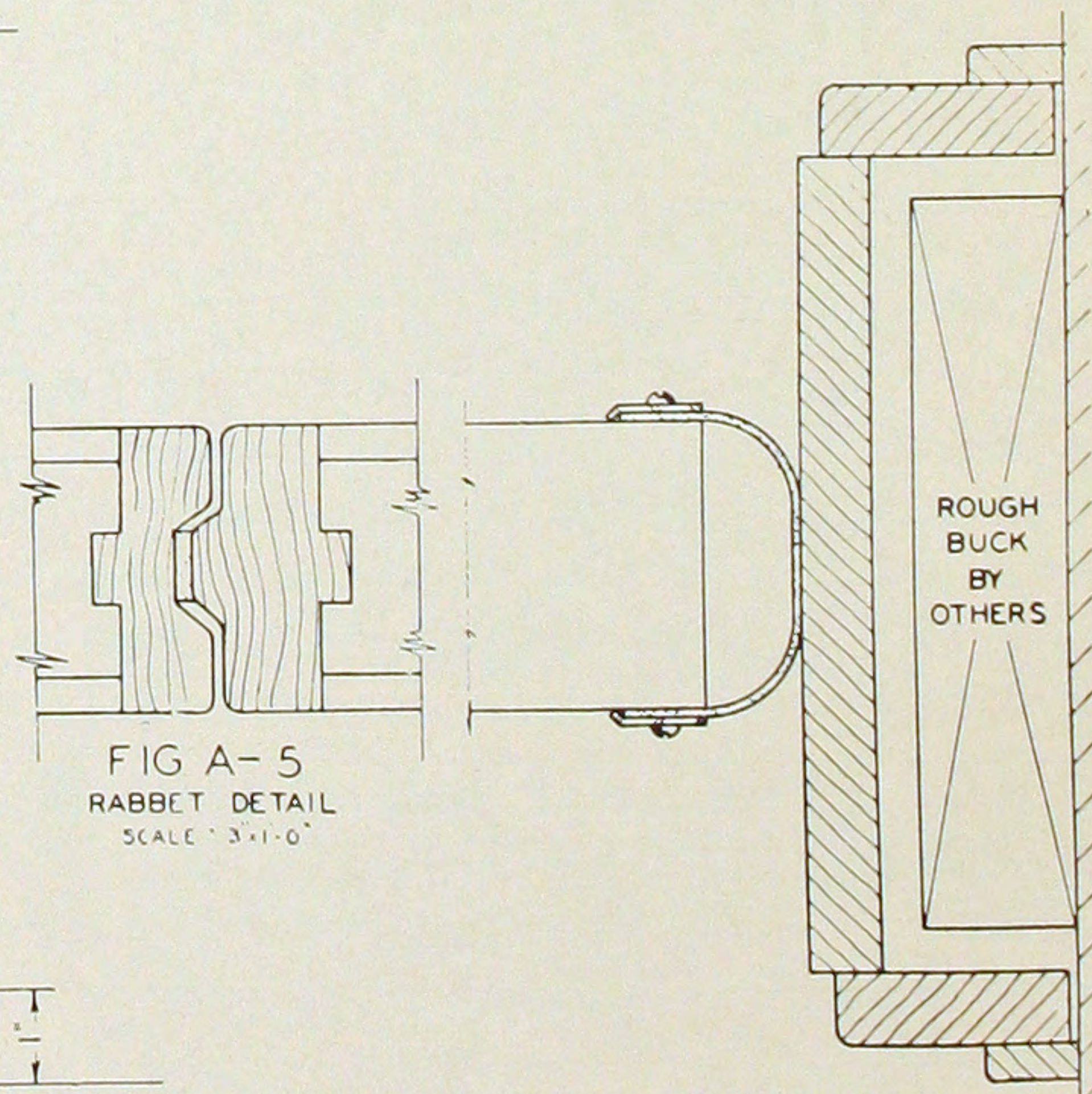


FIG. A-5
RABBIT DETAIL
SCALE: 3" = 1'-0"

FIG. A-6
STANDARD JAMB
SCALE: 3" = 1'-0"

Automatic Electric *FoldeR-Way* Partition

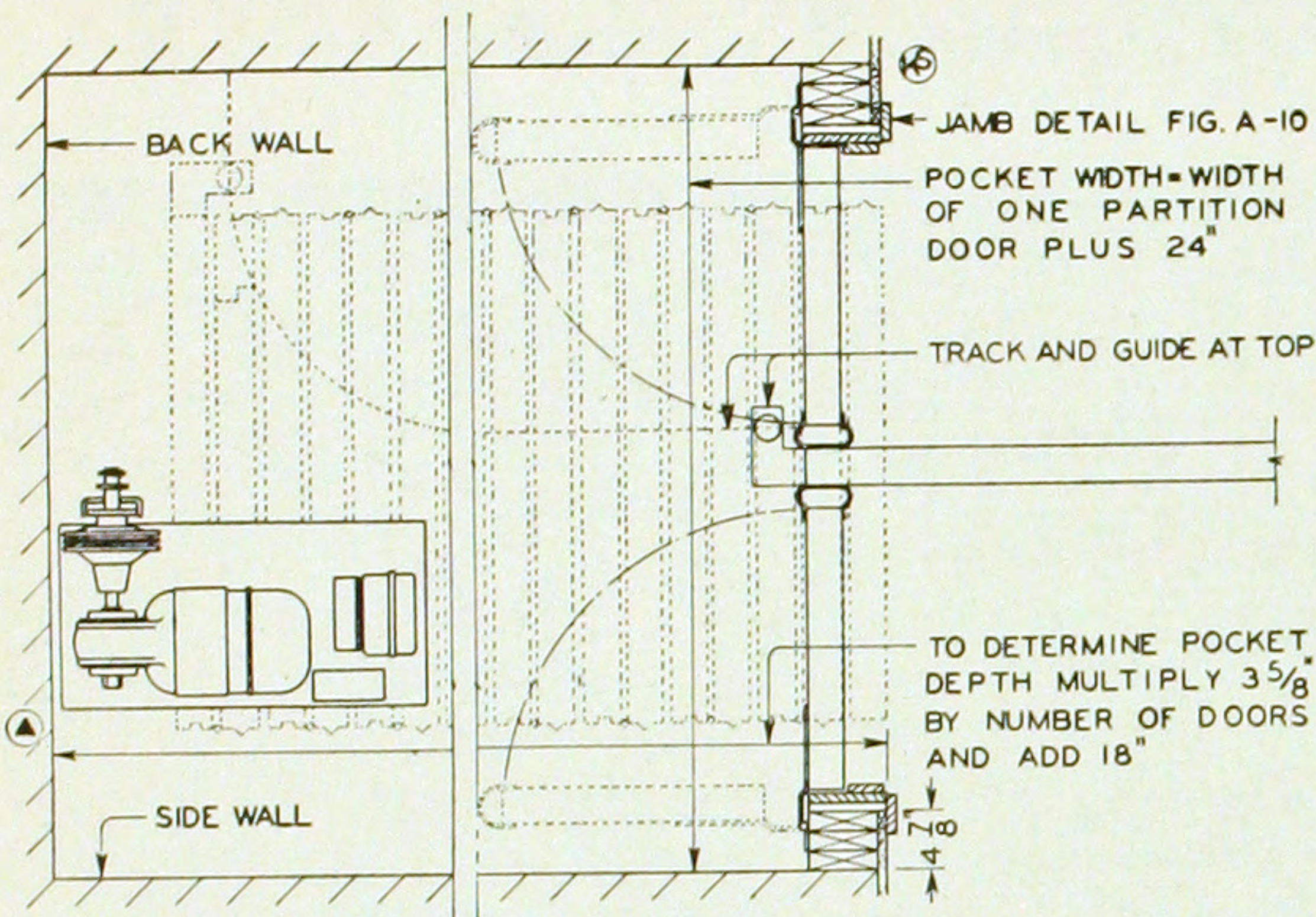


FIG. A-7
TYPICAL PLAN OF POCKET SHOWING
PARTITION AND AUTOMATIC POCKET
DOORS IN CLOSED POSITION
WHEN PARTITION IS FOLDED INTO POCKET THE
TWO POCKET DOORS REMAIN OPEN AS INDICATED

MOTOR OUTLET (A) TO BE
LOCATED AT TOP OF OPENING.
KEY SWITCH OUTLET (B) TO
BE LOCATED 4'-6\"

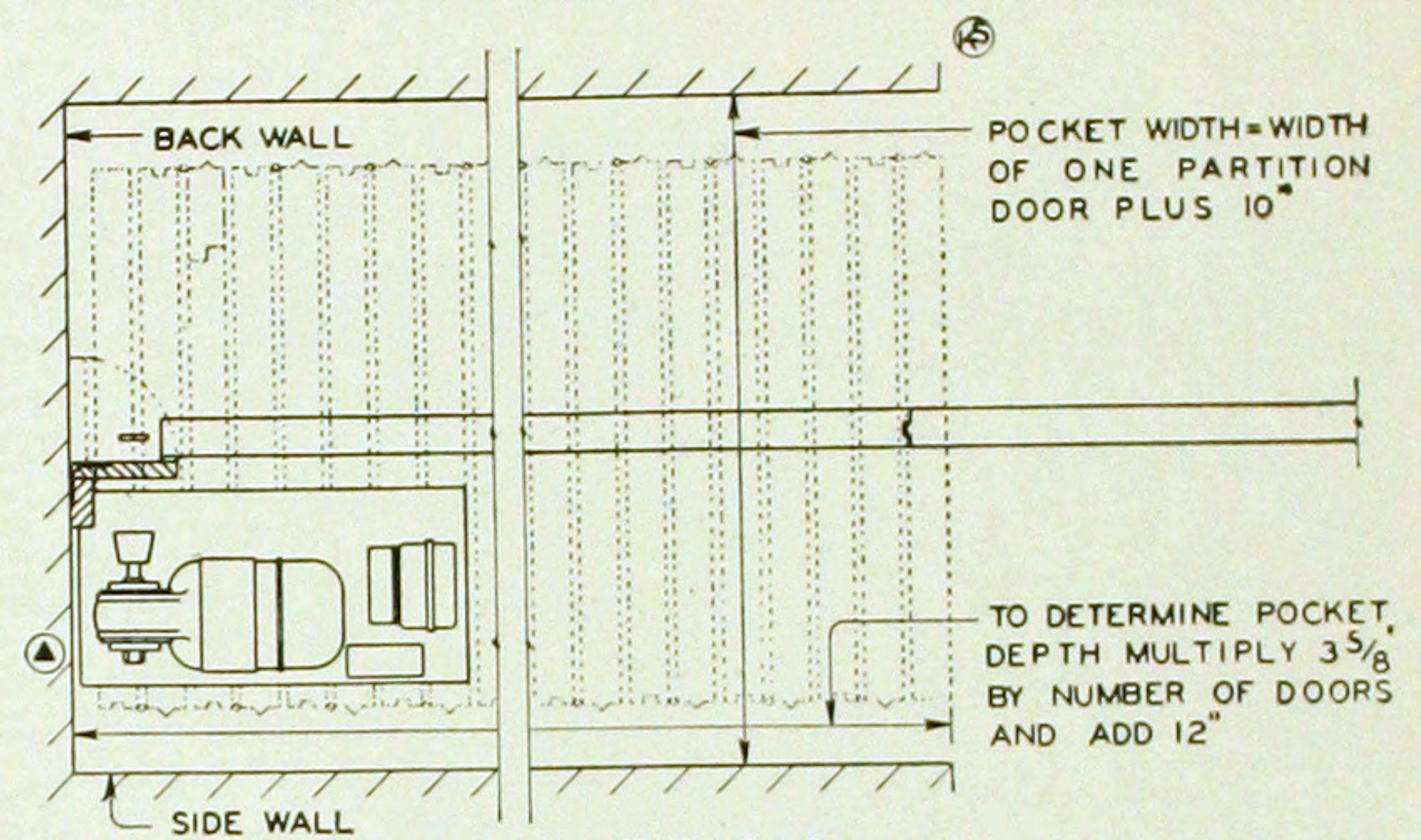


FIG. A-8
TYPICAL PLAN OF POCKET
OMITTING POCKET DOORS
(DOTTED LINES SHOW DOORS IN POCKET)

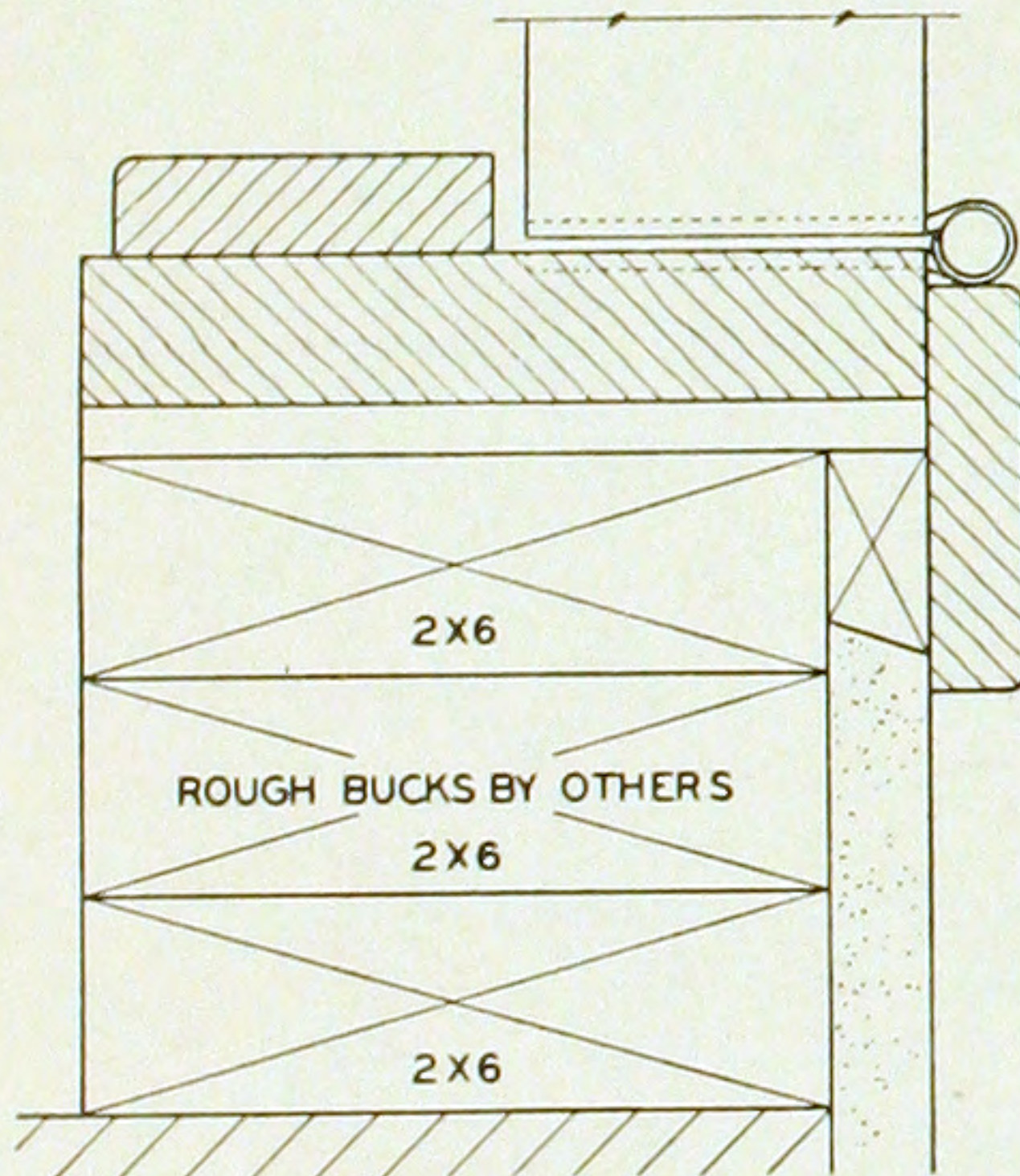


FIG. A-4
JAMB DETAIL FOR MANUALLY
OPERATED POCKET DOOR
SCALE: 3\"=1'-0\"
REFER TO FIG. A-3

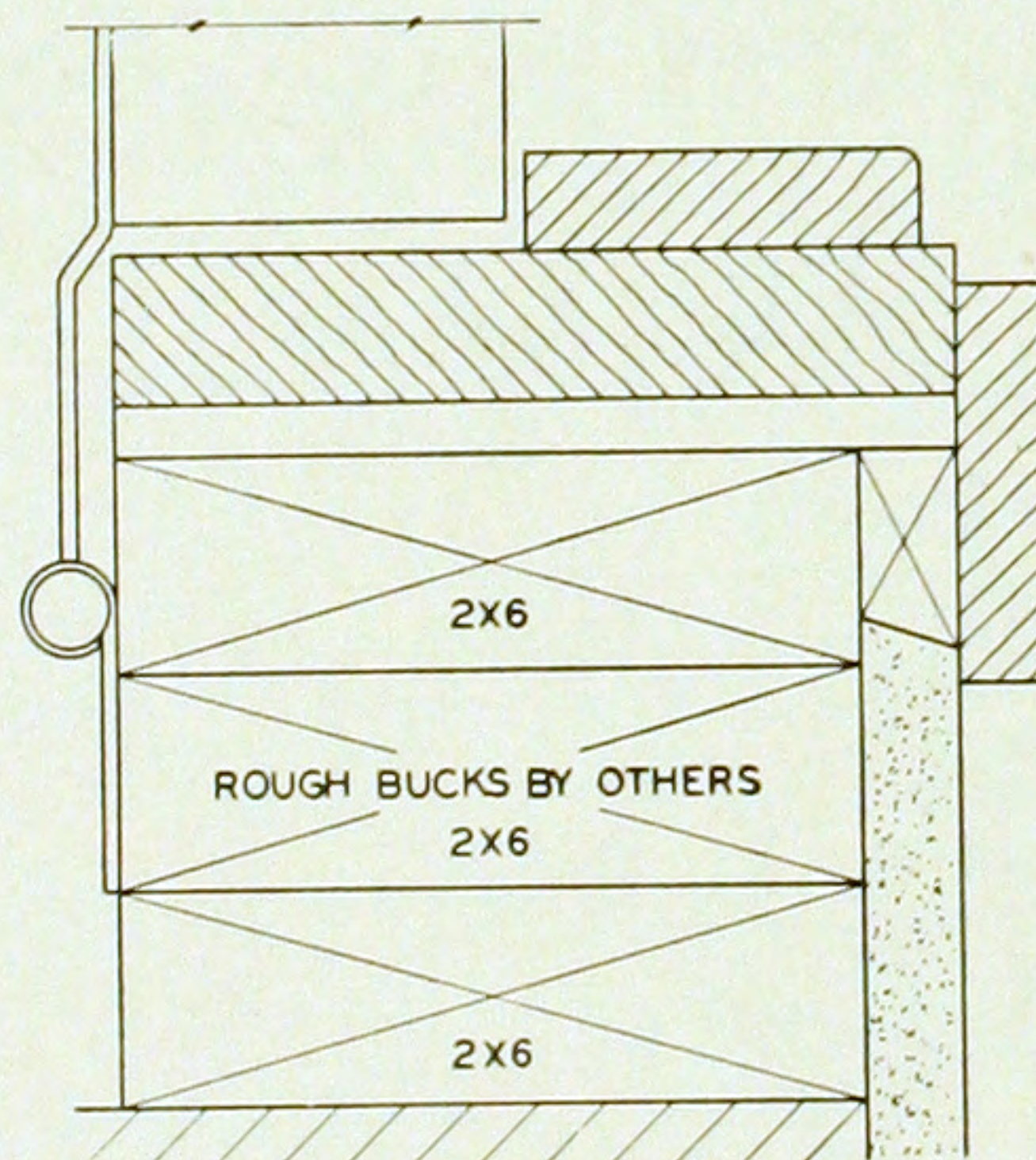


FIG. A-10
POCKET JAMB
SCALE: 3\"=1'-0\"

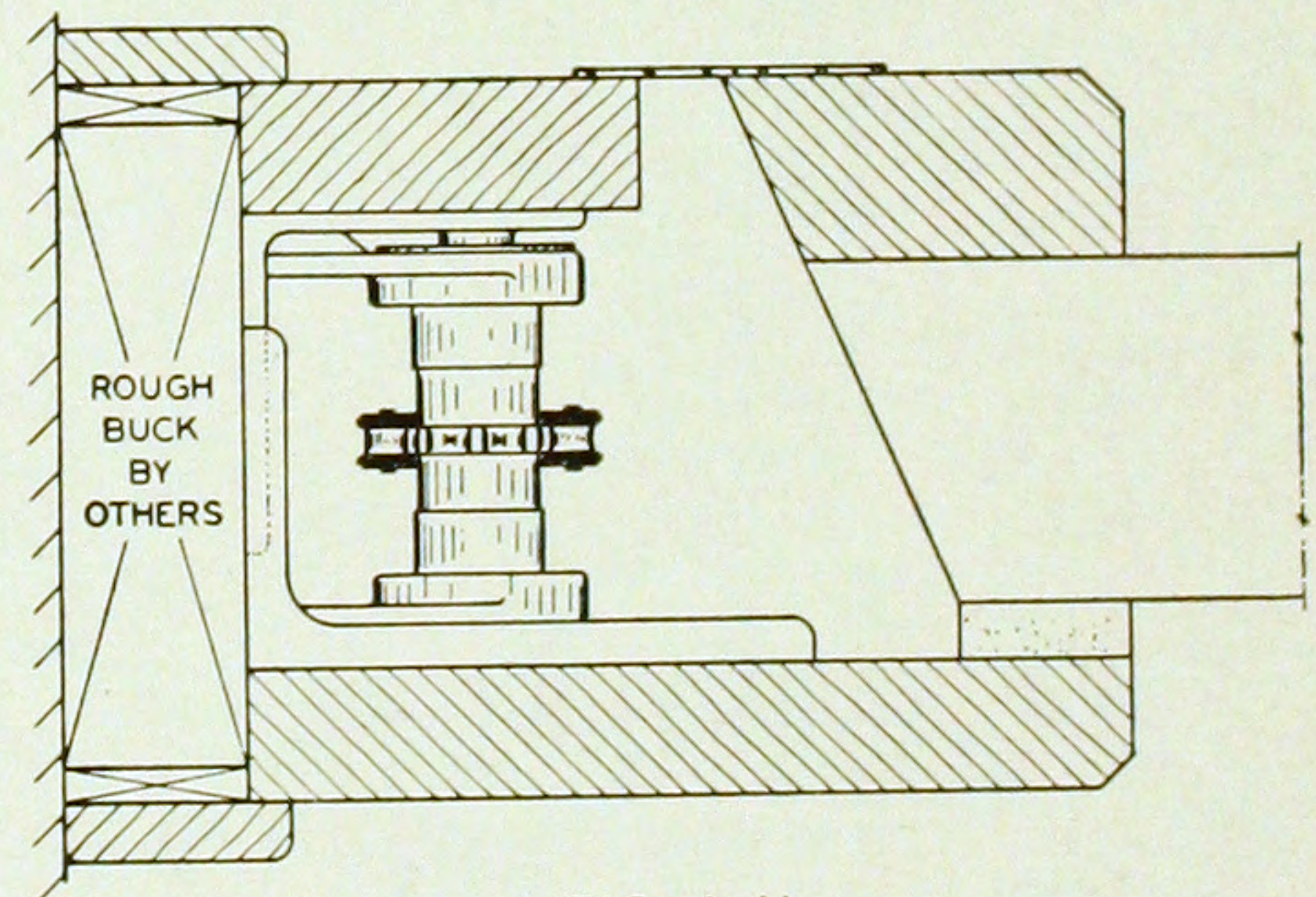


FIG. A-11
STANDARD JAMB
SCALE: 3\"=1'-0\"

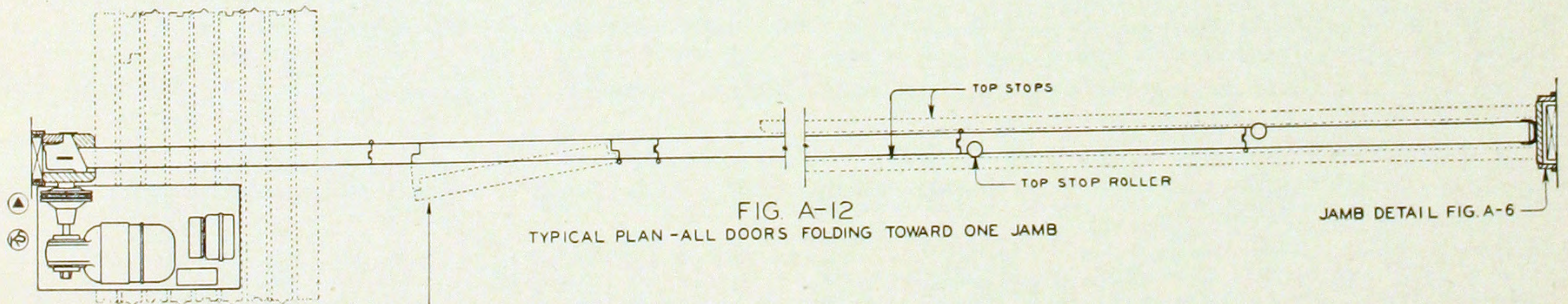


FIG. A-12
TYPICAL PLAN - ALL DOORS FOLDING TOWARD ONE JAMB

A WICKET DOOR MAY BE
INSTALLED IN ANY PARTITION
DOOR

OPENING MUST CONTAIN AN
ODD NUMBER OF EQUAL
WIDTH DOORS FOLDING
TOWARD ANY ONE JAMB

JAMB DETAIL FIG. A-11

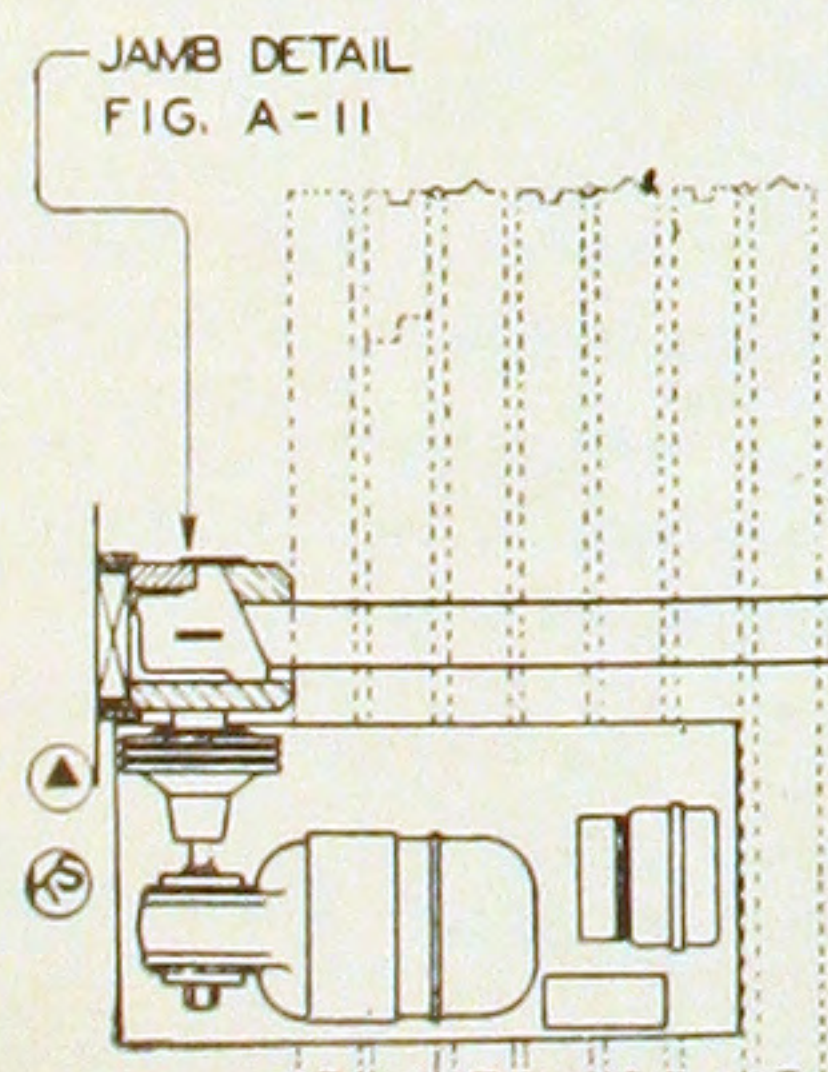
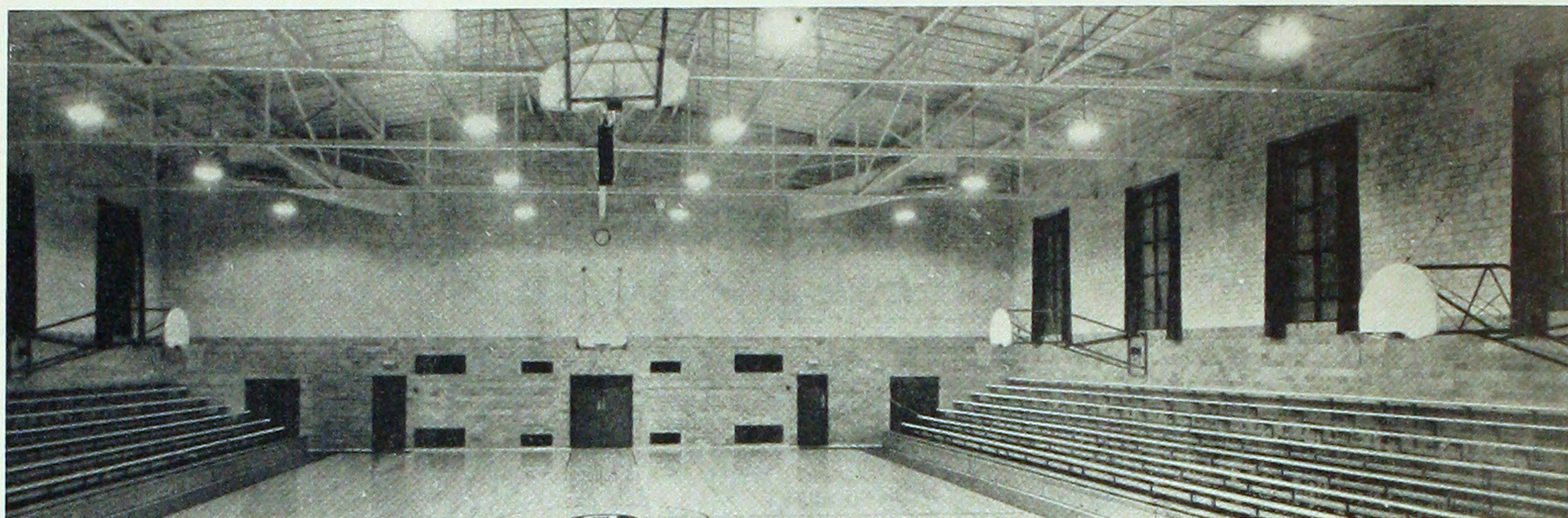


FIG. A-13
TYPICAL PLAN - DOORS FOLDING TOWARD BOTH JAMBS

R-W HORN *FoldeR-Way* **FOLDING BLEACHERS**



**COMFORT-
ABLE
SAFE
SEATING**



**SAFER
PLAYING
WALLS**

Installation of R-W Horn Folding Bleachers in "open" and "folded" positions. Opened---Comfortable, safe seating. Folded---safer playing walls.

RICHARDS-WILCOX HORN FOLDING BLEACHERS (patented) are designed to provide comfortable safe seating for Gymnasiums, Church Halls, Auditoriums, Arenas, etc., and when folded become safety-type, semi-flexible playing walls for indoor sports.

In many localities large room areas can be made revenue producing by providing seating for Sports Events, Conventions, Concerts, Public Assemblies, etc.

R-W HORN Folding Bleachers give maximum seating capacity easily altered to permit games. When folded, Bleachers occupy a minimum of floor area and provide safer playing walls less likely to injure athletes than walls of standard construction.

IMPORTANT FEATURES

Chair Height Seats

Full 18 inch chair height seats. A good basketball game or community concert can be made more enjoyable by comfortable seating.

Ample Leg Room

Since riser boards are not required on the R-W HORN BLEACHER, there is considerable more leg room than will be found in other types of gymnasium seating. The spectator may shift position as the legs can easily be rested underneath the seat same as with an auditorium chair. There is a distance of 18 inches from the foot-board to the seatboard, thus assuring maximum comfort.

Any Number of Rows Usable

One or more rows may be pulled out to form a bench-like seating arrangement for small or large assemblies.

No Limit to Seating Capacity

There is no limit to the number of rows which may be used. For Bleachers higher than 20 rows, consult R-W Engineering Department.

Minimum Space Requirement

Bleachers require minimum of space when in the closed position. See Space Requirements schedule Page 16.

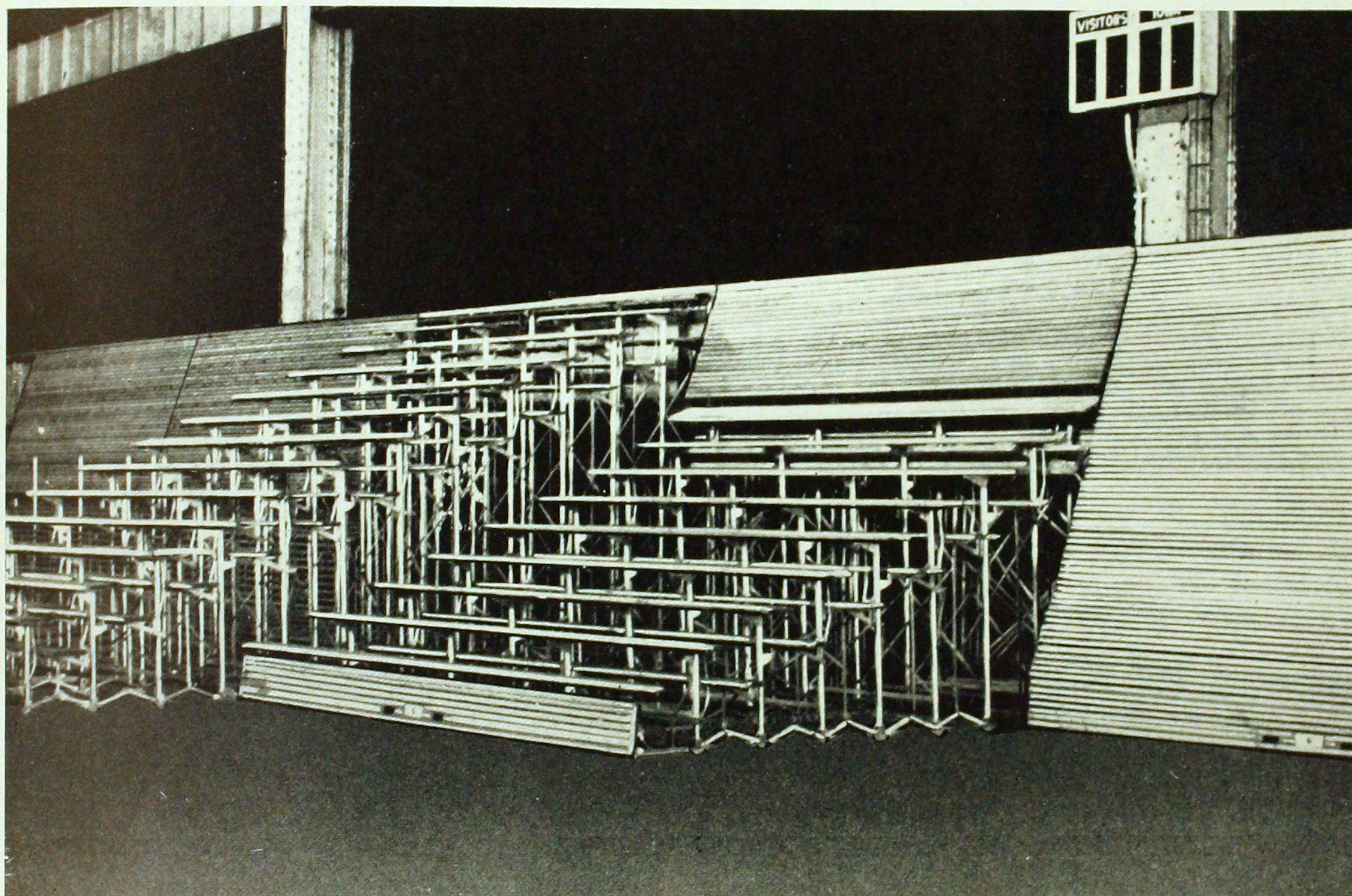
Ease of Operation

One man can easily open or fold the Bleacher regardless of number of rows---no sticking or binding.

Wheels

Equipped with 3 inch diameter wheels which do not mar the floor.

R-W HORN *Folde R-Way* FOLDING BLEACHERS



Fully Open --- Part Open --- Folded

Finish

The seat and footboards of the R-W HORN BLEACHERS are genuine vertical grain Douglas Fir. The edges are neatly rounded stock, carefully sanded before finishing. The clear bakelite finish which is applied at the factory compares favorably with the finest school furniture.

Self-Enclosed Top

Bleacher in folded position, has a self-enclosed top which does not allow a basketball to become lodged.

Automatic Locking

Bleacher automatically locks each row in the open position as the bleacher operates. No floor bolts or rubber pads are used to accomplish locking.

Steel Understructure

The understructure is entirely of steel, electrically welded. No wood parts are depended upon for strength. The understructure is not affected by atmospheric changes.

Steel Cross Bracing

The entire understructure is braced by steel which is bolted into a solid unit. The Bleacher cannot become out of adjustment in any way.

Patented Folding Arms

The patented folding arm principle of operation permits the use of steel cross bracing. Each row of seating in a full 16 foot section has four supports directly to the floor.

Load Direct to Floor

Each seat and footboard is supported directly to the floor.

Easily Cleaned

Since both footboards and seatboards tilt to a vertical position when the Bleacher is folded, all dirt accumulated on the Bleachers during a game, falls to the floor, where it is easily swept away. The seatboards may be dusted when the Bleacher is in folded position.

Mobile

By special arrangement full sections of Bleacher may be made mobile so that it can be used in other parts of the gymnasium or in auditorium. This feature is obtainable at slight additional cost.

Guarantee

Each R-W HORN installation is fully guaranteed against faulty workmanship and operation.

Note : All R-W Horn Folding Bleachers are built with new "SAF-SEAT" type boards as shown above, designed for non-slip protection.

FOR PRICES AND ADDITIONAL DETAILS, R-W ENGINEERS AND SALESMEN ARE AT YOUR SERVICE AT ALL BRANCH OFFICES.

SPECIFICATIONS

GENERAL SCOPE

1. All Folding Bleachers shown on the plans shall be R-W HORN Accordion Folding Bleachers as manufactured by Richards-Wilcox Canadian Co., Ltd., London Ontario.
2. Bleachers shall be furnished, delivered and installed by factory-trained mechanics. The entire installation shall be guaranteed against faulty materials, workmanship and operation.
3. Quantities are as follows: Total length of sections shall be — consisting of — rows. When closed, seats shall not extend from the wall in excess of —. When open, seats shall not extend from the wall in excess of —. The height of the Bleachers shall remain the same open or closed. (A "section" is a group of units in one continuous length.)

PRINCIPLE

4. Bleachers shall operate on the telescoping principle, whereby all seats fold below the top seat, accomplished by means of folding arms. No rollers or slides will be permitted. Units shall be fitted with heavy duty aluminum alloy rollers to prevent marring floor. Bleachers shall open in one continuous operation and shall be so constructed that one or more rows may be opened ready for use with the rest of the unit remaining in a closed position.
5. Provide automatic locking equipment which shall lock the Bleachers in an open position without the use of bolts or floor sockets. Provide cylinder locks, keyed alike to lock Bleachers in closed position.
6. When Bleachers are in a closed position, the seatboards shall automatically rise to an upright position to completely enclose the unit. Bleacher seats in closed position must tilt to form a safety inclining front.

DESIGN

7. Bleachers when in use shall be designed and constructed to safely support, in addition to their own weight, a live load of

120 lbs. per lineal foot on both seatboard and footboard and a horizontal swaying force applied to the seats of 25 lbs. per lineal foot of seats plus a factor of safety of 4.

8. Each row shall have a depth of not less than 22", and a rise above the next row of not less than 9" to insure a good visibility.
9. Bleachers in the folded position shall form a complete covering, offering no space for basketballs, handballs, etc., to become lodged behind or underneath.
10. SAF-SEAT and footboards to be furnished which will allow free circulation of air through Bleachers from radiators or heating units

CONSTRUCTION

11. All sections shall be fabricated at factory, using electric arc welding for steel members and wood for seat and footboards, ready for assembly at site.

SEAT AND FOOTBOARDS

12. Seat and footboards shall be genuine vertical grain Douglas Fir, 1 1/4 inch stock, carefully sanded before finishing.
13. Ends of seat and footboards shall be fabricated with wood cleats, nailed and glued under pressure to prevent warping, cupping and to insure alignment.

COLUMN SUPPORTS

14. All column supports to have cold-rolled steel sway brace members to prevent lateral motion and eliminate need of wood riser members for structural strength.
15. There shall be four structural supports to each seatboard and footboard on standard 16' sections.

FINISH

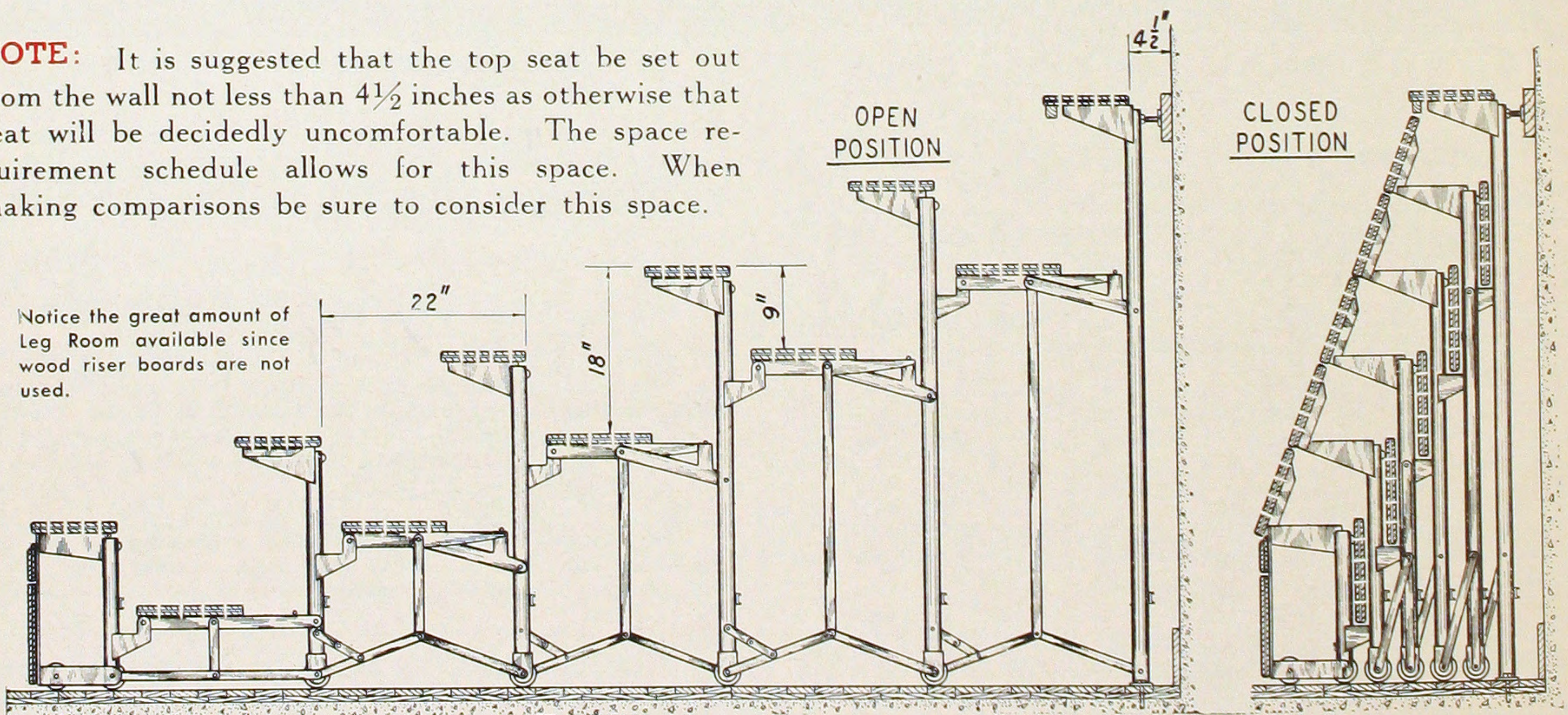
16. Woodwork shall be finished with two coats of best quality clear bakelite sealer.
17. Steel understructure shall be given two coats of School Furniture Brown Enamel or Aluminum.

SPACE REQUIREMENTS

ROWS	FLOOR SPACE		**HEIGHT	ROWS	FLOOR SPACE		**HEIGHT
	IN USE	*CLOSED			IN USE	*CLOSED	
2	3 Ft. 0 In.	1 Ft. 5 3/8 In.	2 Ft. 4 In.	12	21 Ft. 3 In.	4 Ft. 3 1/8 In.	9 Ft. 9 In.
3	4 Ft. 9 In.	1 Ft. 8 3/4 In.	3 Ft. 0 In.	13	23 Ft. 1 In.	4 Ft. 6 1/2 In.	10 Ft. 6 In.
4	6 Ft. 7 In.	2 Ft. 0 1/8 In.	3 Ft. 9 In.	14	24 Ft. 11 In.	4 Ft. 9 7/8 In.	11 Ft. 3 In.
5	8 Ft. 5 In.	2 Ft. 3 1/2 In.	4 Ft. 6 In.	15	26 Ft. 9 In.	5 Ft. 1 1/4 In.	12 Ft. 0 In.
6	10 Ft. 3 In.	2 Ft. 6 7/8 In.	5 Ft. 3 In.	16	28 Ft. 7 In.	5 Ft. 4 5/8 In.	12 Ft. 9 In.
7	12 Ft. 1 In.	2 Ft. 10 1/4 In.	6 Ft. 0 In.	17	30 Ft. 5 In.	5 Ft. 8 In.	13 Ft. 6 In.
8	13 Ft. 11 In.	3 Ft. 1 5/8 In.	6 Ft. 9 In.	18	32 Ft. 3 In.	5 Ft. 11 3/8 In.	14 Ft. 3 In.
9	15 Ft. 9 In.	3 Ft. 5 In.	7 Ft. 6 In.	19	34 Ft. 1 In.	6 Ft. 2 3/8 In.	15 Ft. 0 In.
10	17 Ft. 7 In.	3 Ft. 8 3/8 In.	8 Ft. 3 In.	20	35 Ft. 11 In.	6 Ft. 6 1/8 In.	15 Ft. 9 In.
11	19 Ft. 5 In.	3 Ft. 11 3/4 In.	9 Ft. 0 In.				

*Dimension includes 4 1/2 in. space between top seat and wall.
 **Height in open position same as closed. For Bleachers higher than 20 Rows write for complete details and dimensions.

NOTE: It is suggested that the top seat be set out from the wall not less than 4 1/2 inches as otherwise that seat will be decidedly uncomfortable. The space requirement schedule allows for this space. When making comparisons be sure to consider this space.



Richards-Wilcox
 CANADIAN COMPANY LIMITED
 LONDON

MONCTON - MONTREAL - TORONTO - HAMILTON - WINNIPEG - VANCOUVER



PRODUCTS

INDUSTRIAL DOORS

Super-Way---Multiplex---Burvett
Fyre-Ward Fire Doors

GARAGE DOORS

Rolltite---of Wood-Steel-Aluminum

ELECTRIC DOOR OPERATORS

PIER DOORS

AIRCRAFT HANGAR DOORS

DOOR CLOSERS AND CHECKS

CHECKING FLOOR HINGES

SLIDING DOOR HARDWARE

BARN DOOR HARDWARE

HEAVY HINGES

REFRIGERATOR HARDWARE

SASH BALANCES

THEATRE CURTAIN HARDWARE

"FOLDER-WAY" FOLDING PARTITIONS

"FOLDER-WAY" FOLDING BLEACHERS

MATERIAL HANDLING EQUIPMENT

CRANES

Overhead--Jib--Gantry
Manual or Electric

MONORAIL SYSTEMS

I-Beam and Trolley Track---Curves
Switches---Turntables---Buckets
Grabs---Slings---Hoists---Trolleys

POWER-WAY

Continuous Overhead
Power Conveyors

Complete Engineering and Installation Service

Richards-Wilcox
CANADIAN COMPANY LIMITED
LONDON

